



**VITALS/MEASUREMENTS
TECHNICAL MANUAL AND PACKAGE
SECURITY GUIDE**

Version 4.0

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Software Service
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Preface

The Vitals/Measurements Technical Manual and Package Security Guide has been developed for IRMS (Information Resource Management Service) and CIOFO (Chief Information Office Field Office) support personnel and contains technical information on the application. The content covers: software implementation and maintenance, routines descriptions, a file list, an exported option list, cross-references, archiving and purging, callable routines, external relations, package-wide variables, and on-line documentation.

The Vitals/Measurements Technical Manual and Package Security Guide is one of four manuals associated with the application. Information discussing the functionality of the software's menus and options is found in the Vitals/Measurements User Manual. Information critical to the successful installation of the software can be found in the Vitals/Measurements Installation Guide. New release changes can be found in the Vitals/Measurements Release Notes.

Table of Contents

Introduction.....	1
Chapter 1 Implementation and Maintenance	1.1
Description.....	1.1
Virgin Installation of software.....	1.1
Setting up the software environment.....	1.1
Name spacing and file listing	1.2
Editing site configurable files	1.2
Queueing TaskMan jobs.....	1.2
Accessing menus.....	1.2
Assigning menus.....	1.3
Printer issues.....	1.3
Non-Virgin Installation of software	1.5
Implementation Considerations	1.5
Resource Requirements.....	1.5
Chapter 2 Routine Descriptions	2.1
Chapter 3 File List and Related Information	3.1
File Descriptions.....	3.1
Package Default Definition.....	3.1
Chapter 4 Exported Options.....	4.1
Menu Options by Name	4.1
Chapter 5 Cross-references.....	5.1
Chapter 6 Archiving and Purging.....	6.1
Chapter 7 Callable Routines	7.1
Chapter 8 External Relations.....	8.1
Chapter 9 Internal Relations.....	9.1
Chapter 10 Package-wide Variables	10.1
Chapter 11 On-Line Documentation.....	11.1
Chapter 12 SAC Exemptions.....	12.1
Chapter 13 Software Product Security	13.1
Security Management.....	13.1
Security Features.....	13.1
Mail groups and alerts.....	13.1
Remote systems.....	13.1
Archiving/Purging.....	13.1
Contingency Planning.....	13.1
Interfacing.....	13.1
Electronic signatures.....	13.1
Menus.....	13.2
Security Keys.....	13.2
File Security.....	13.2
References.....	13.2
Official Policies.....	13.2
Glossary	GL.1

Table of Contents

Introduction

The Vitals/Measurements application is designed to store in the patient's electronic medical record all vital signs and various measurements associated with a patient's hospital stay or outpatient clinic visit. Data can be accessed by several VISTA (Veterans Health Information Systems and Technology Architecture) applications (e.g., Health Summary, Pharmacy) that interface with the Vitals/Measurements application .

Functionality:

- Supports documentation of a patient's vital signs (e.g., temperature, pulse, and respiration).
- Tracks a patient's height, weight, central venous pressure (CVP), circumference/girth and oxygen saturation via oximetry with supplemental oxygen information.
- Supports documentation of detailed or positional blood pressures for a patient (i.e., bilateral blood pressures taken in a sitting, standing and lying position).
- Associates qualifiers (alpha characters appended to the measurement's numeric value) to provide a more detailed description of the patient's vitals/measurements.
- Contains detailed help screens to assist users in associating appropriate qualifiers with the patient vitals/measurements.
- Permits users to add site specific qualifiers that can be viewed on edit displays.
- Prints temperature, height, weight, CVP and circumference/girth in both metric equivalents and U.S. customary units.
- Prints a patient's Body Mass Index (BMI) which is calculated by dividing the person's weight in kilograms by the square of his height in meters.
- Prints patient's cumulative measurements on the Vitals Flow Sheet (SF511) and the Cumulative Vitals Report.
- Displays latest information on all of the patient's vitals/measurements in both metric equivalents and U.S. customary units along with the date/time the information was obtained.
- Prints an expanded vitals graphic report which includes the patient's intake and output when present in the patient's database (refer to the Intake and Output application).

- Prints blood pressure graphic reports.
- Interfaces with the Nursing software to display data on various nursing reports including the End of Shift Report.
- Interfaces with the Order Entry/Results Reporting and the Computerized Patient Record System (CPRS) to support ordering of vital signs and other measurements.
- Allows facilities to establish hospital-wide high and low values for each vital sign or measurement
- Identifies abnormal patient values on vitals/measurements reports (those values outside the high and low range).
- Prints the following patient measurements in a linear graphic report format:
 - Temperature and pulse.
 - Blood pressure.
 - Weight.
 - Pulse oximetry and respiration.
- Audiometry, fundal height, fetal heart tones, head circumference, hearing, tonometry, vision corrected and vision uncorrected measurements are added to the GMRV Vital Type (#120.51) file for use by the Patient Care Encounter (PCE) application.
- Prints a Vitals Category/Qualifier Table that lists all vital types (e.g., temperature, pulse) and their associated categories (e.g., location, site, method), and qualifiers (e.g., oral, tympanic, radial) used in the application.
- Supports facility specific defaults for temperature and pulse.
- Supports the archiving and purging of patient measurements, that are no longer required on the production account, through FileMan.
- Supports multiple changing of documentation parameters (e.g., date/time taken, vitals signs/measurements combination, and patient/location combination) through the Vitals/Measurements Data Entry option without leaving the menu.
- Interfaces with Health Summary and passes all patient vitals/measurements information within a specific date range.
- Records a reason for the omission of a patient's vitals/measurements.
- Allows the entry of multiple Quick Order protocols with a single vital type.

Chapter 1 Implementation and Maintenance

Description:

This chapter provides guidelines for implementing the Vitals/Measurements application. It is important to complete all of the steps contained in this chapter before assigning menu options to clinical staff.

Virgin Installation of Software:

The following steps should be followed when the Vitals/Measurements software is installed in an environment where no previous installation of the Vitals/Measurements application has taken place.

1. Setting up the software environment.

Information Resource Management Services (IRMS) staff should install the software using the Installation Guide in a test environment prior to installing the software in the production (VAH) account. The following *VISTA* packages should reside in the environment where the Vitals/Measurements application is to be installed:

- a. VA FileMan V. 21 or greater,
- b. Kernel V. 8.0 or greater,
- c. Kernel Toolkit V. 7.3 or greater,
- d. PIMS (MAS) V. 5.3 or greater,
- e. Intake and Output V. 4.0,
- f. Health Summary V. 2.7 or greater.
- g. If you are using Order Entry/Results Reporting (OE/RR), V. 2.5 or greater, the Administration Schedule (#51.1) file of Inpatient Medications V. 4.5 or greater must be installed.

The Vitals/Measurements software must be installed before the Nursing V. 4.0 application can be installed because specific Nursing V. 4.0 options are dependent upon the Vitals/Measurements routines. Data entered into the test environment CANNOT be transferred into the production environment. It is recommended that a limited amount of data be entered into the test directory in order for the user to become familiar with the application and to establish an acceptable training data base.

2. Name spacing and file listing.

Vitals/Measurements is found in the GMRV namespace. All routines, templates and options begin with GMRV. File numbers are in the range of 120.5 to 120.57 and are stored in the ^GMR and ^GMRD globals.

3. Editing site configurable files.

- a. The Edit Vitals Site Parameter File option edits the GMRV Vitals Parameters (#120.57) file.
- b. The Enter/Edit Vitals Qualifiers option edits the GMRV Vital Qualifier (#120.52) file.
- c. The Display Vitals Category/Qualifier Table option displays the GMRV Vital Category (#120.53) file.
- d. The Edit Administration Schedules File option edits the Administration Schedule (#51.1) file.
- e. The Create Vital Measurement Quick Order Protocol option edits the Protocol (#101) file.

Review the above populated site configurable files. Files (a) through (c) are used in the screen displays associated with editing patient vitals/measurements. Files (d) and (e) must be populated if OE/RR is implemented at your facility. The options which allow the application coordinator to edit the file's data are all located in the GMRV Manager Menu (i.e., Vitals/Measurements Site File Menu, (option 4)). Refer to Vitals/Measurements User Manual, Chapter 2 for additional information.

4. Queueing TaskMan jobs.

No queued TaskMan jobs are associated with this application.

5. Accessing menus.

There is a separate set of menu options under GMRV and NUR (Nursing). The GMRV software identifies a patient's hospital location by using the Hospital Location (#44) file. The Nursing software hooks into the GMRV software and uses the Nursing Location (#211.4) file. In the Nursing package Vitals/Measurements is found under Patient Care Data, Enter/Edit. Vitals/Measurements includes: Vitals/Measurement Data Entry and Edit a Vital/Measurement Entered in Error. Vitals/Measurements Results Reporting is found under Patient Care Data, Print.

6. Assigning menus.

The GMRV menu contains the following menus or options:

Select OPTION NAME: **GMRVMGR** Vitals/Measurement

- 1 Vitals/Measurement Data Entry ...
- 2 Vitals/Measurements Results Reporting ...
- 3 Edit a Vital/Measurement Entered in Error
- 4 Vitals/Measurements Site Files Menu ...

Clinical staff should be assigned options 1 through 3. Option 4 should be assigned to the Vitals/Measurements application coordinator. The Vitals/Measurements Site Files menu is also found under the Clinical Site File Functions menu, in the Nursing Application.

7. Printer issues.

The application's reports were designed to be used with the Kyocera F-800A laser printers, HP LaserJet III printers, and the HP LaserJet 4 printers, but they can also be printed on dot matrix printers. When using a programmable graphic laser printer the setups need to be checked, to insure the correct format on the printed page.

The following special printer setup is for Kyocera type printers:

- a. Ensure the existence of a Kyocera entry in the Terminal Type file. This device compresses print and has a margin width of 132 characters. This entry may be exported by Kernel, or you may have to set up your own entry.
 - 1) The Name (#.01) field should begin with the characters P-KYOCERA e.g., P-KYOCERA-P16. This is important as the software will not recognize the device as a Kyocera printer if this Terminal Type entry is not set up properly.
 - 2) The Right Margin (#1) field must be 132.
- b. Create a Device file entry for the Kyocera printer.
 - 1) The Name (#.01) field should contain the word KYOCERA. This isn't required, but will make selection of this device by users easier.
 - 2) Sub-Type (#3) field should point to a Terminal Type entry that fits the characteristics defined above in (a-1).
 - 3) Margin Width (#9) field should be 132.
- c. In the Kyocera printer, PRESCRIBE Macro Buffer Size (H0)=99. To reprogram your printer,
 - 1) Type: !R! RES; FRPO H0, 99; EXIT; on your terminal/input device.

- 2) Print this code on your Kyocera printer (using appropriate print commands). This may be done through a mail message.
- 3) Turn off the printer for a few seconds, then place the printer back on line (by turning it on). The printer will then be ready to print the linear graphic reports (e.g., SF511).

The following special printer setup is for HP LASERJET III, HP LASERJET 4 and HP LASERJET 5 printers:

- a. Ensure the existence of a HP LASERJET entry in the Terminal Type file. This device compresses print and has a margin width of 132 characters. This entry may be exported by Kernel, or you may have to set up your own entry.
 - 1) The Name (#.01) field should begin with the characters P-HPLASER e.g., P-HPLASER-L180. This is important as the Vitals/Measurements software will not recognize the device as an HP LASERJET printer if this Terminal Type entry is not set up properly.
 - 2) The Right Margin (#1) field must be 132.
- b. Create a Device file entry for the HP LASERJET printer.
 - 1) The Name (#.01) field should contain the word HPLASER. This isn't required, but will make selection of this device by users easier.
 - 2) Sub-Type (#3) field should point to a Terminal Type entry that fits the characteristics defined above in (b-1).
 - 3) Margin Width (#9) field should be 132.
 - 4) Suppress Form Feed at Close (#11.2) field should be set to YES.

Note: If the printer is not set up correctly, it will effect the printed output. KYOCERA and HPLASER are key words in the routine to identify which printer is being used, and IRMS must edit the Device file so the word KYOCERA or HPLASER appears in the name of the device (e.g., KYOCERA-PORT).

Non-Virgin Installation of Software:

Follow steps 1 through 7 above when installing the software in an environment where a previous version of the application has been installed.

Implementation Considerations:

Some sites prefer to delay implementation of the software until they have a point of care data entry system, but this software can be implemented without a point of care system. Vital sign entry can be accomplished by ancillary service personnel, (e.g., PIMS, Dietetics, Pharmacy). Interested users of this software are encouraged to form a committee to work cooperatively on the implementation and training of the package. Setting up test wards is a good way to begin a cooperative implementation effort. The Vitals/Measurements module is appropriate for all personnel who obtain and record patient vitals/measurements. Conceivably this module could be used by nursing, dietetics, medicine, and other disciplines as appropriate.

You may want to involve the Clinical Executive Committee in the review of the Vital Site Parameter file. This facilitates station wide agreement on what the abnormal values will be. It also encourages physician use of the software.

Resource Requirements:

The minimal hardware requirements for the software are two CRTs and one printer per location. In addition to this, the following statistics regarding the disk storage requirements of the software were compiled by the Alpha/Beta test sites.

<u>Globals</u>	<u>Type of Data</u>	<u>Size</u>
DDs		40 k
GMR	Patient data for the Text Generator, Vitals/Measurements and Intake and Output Modules	25-75 k/ patient
GMRD	Static data for the Text Generator, Vitals/Measurements and Intake and Output Modules	10 k depending on the global efficiency

Chapter 2 Routine Descriptions

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GMRVADM      ;HIRMFO/YH-Determine Patient's Admission, Discharge and Absence
Status ;10/1/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVALL0     ;HIRMFO/YH-ENTER/EDIT V/M AND OTHER MEASUREMENTS ;1/21/97
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVALL1     ;HIRMFO/YH-ENTER/EDIT V/M AND OTHER MEASUREMENTS ;7/16/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVBMI      ;HIRMFO/YH-EXTRACT HEIGHT TO CALCULATE BMI FOR WEIGHT; 3/24/97
      ;;4.0;Vitals/Measurements;;Apr 25, 1997
GMRVBP0      ;HIRMFO/YH-KYOCERA B/P GRAPH - DATA ARRAY ;11/1/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVBP1      ;HIRMFO/YH-KYOCERA B/P GRAPH - GRAPH DATA ;11/10/94
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVBP2      ;HIRMFO/JC,YH-KYOCERA BP GRAPH MACRO ;11/10/94
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVBP3      ;HIRMFO/JYC,YH-KYOCERA B/P GRAPH MACRO (CONT.) ;6/19/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVBP4      ;HIRMFO/JC,YH-KYOCERA B/P GRAPH - MACRO CALL ;11/10/94
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVBP5      ;HIRMFO/YH-KYOCERA B/P GRAPH - ^TMP DATA ;10/27/95
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVCAQU     ;HIRMFO/YH-DISPLAY CATEGORY/QUALIFIER TABLE FOR VITAL TYPE ;12/31/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVCHAR     ;HIRMFO/YH-EXTRACT CHARACTERISTIC DATA ;7/30/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVDS0      ;HIRMFO/YH-DISPLAY LATEST VITALS/MEASUREMENTS ;12/19/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVDS1      ;HIRMFO/YH,RM-CURRENT VITAL SIGNS BY LOCATION ;1/17/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVDS2      ;HIRMFO/RM,YH-VITAL SIGNS DISPLAY ;6/28/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVED0      ;HIRMFO/RM,YH-VITAL SIGNS EDIT SHORT FORM ;7/10/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVED1      ;HIRMFO/RM,YH-VITAL SIGNS EDIT SHORT FORM (cont.) ;10/9/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVED2      ;HIRMFO/RM,YH-VITAL SIGNS EDIT SHORT FORM ;3/7/88
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVED3      ;HIRMFO/MD,YH-VITAL SIGNS EDIT SHORT FORM (cont.) ;1/14/97
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVED4      ;HIRMFO/RM,YH-VITAL SIGNS SHORT FORM ;7/10/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVED5      ;HIRMFO/YH-VITALS MEASUREMENTS APPLICATION PROGRAM INTERFACE EDIT
TMP ;1/17/97
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVED6      ;HIRMFO/YH-VM EDIT FOR PATIENT ON PASS OR REFUSE ;9/26/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVEE0      ;HIRMFO/RM,YH-ENTERED IN ERROR EDIT ;12/12/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVEE1      ;HIRMFO/RM,YH-ENTERED IN ERROR EDIT ;12/12/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVEE2      ;HIRMFO/RM,YH-ENTERED IN ERROR EDIT (cont.) ;12/12/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVEE3      ;HIRMFO/YH-ENTERED IN ERROR EDIT (cont.) ;12/12/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVER0      ;HIRMFO/RM,YH-REPORT OF VITALS ENTERED IN ERROR FOR A PATIENT
;10/30/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVER1      ;HIRMFO/RM,YH-REPORT OF VITALS ENTERED IN ERROR FOR A PATIENT
;1/17/96
      ;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVFILE     ;HIRMFO/FT-Set V/M File Security ;3/5/97 16:41
      ;;4.0;Vitals/Measurements;;Mar 03, 1997
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Routine Descriptions

GMRVFUT0 ;HIRMFO/RM-FILE UTILITIES FOR 120.5 FILE ;1/21/97
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVFUT2 ;HIRMFO/RM-FILE UTILITIES FOR 120.52 FILE ;7/22/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVFUT3 ;HIRMFO/RM-FILE UTILITIES FOR 120.53 FILE ;7/22/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVGR0 ;HIRMFO/MH,YH-VITALS GRAPH (PART 1) ;10/26/95
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVGR1 ;HIRMFO/MH,YH-VITALS GRAPH (PART 2) ;12/3/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVGR2 ;HIRMFO/JC,MH,YH-VITALS GRAPH KYOCERA DEFINE MACRO (PART 1) ;12/3/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVGR3 ;HIRMFO/JYC,MH,YH-VITALS GRAPH KYOCERA DEFINE MACRO (PART 2)
;6/19/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVGR4 ;HIRMFO/JC,MH,YH-VITALS GRAPH KYOCERA PRINT COMMANDS (PART 1) ;1-6-
92
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVGR5 ;HIRMFO/RM,YH-TMP TO EXTRACT DATA FROM IO PACKAGE ;11/7/95
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVGR6 ;HIRMFO/JC,MH,YH-VITALS GRAPH KYOCERA PRINT COMMANDS (PART 2) ;1-6-
92
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVGR7 ;HIRMFO/YH-VITALS GRAPH KYOCERA DEFINE MACRO FOR PULSE OX./CG/CVP
;3/18/97
;;4.0;Vitals/Measurements;;Apr 25, 1997

GMRVHB0 ;HIRMFO/YH-HP 3/4 B/P GRAPH - DATA ARRAY ;11/10/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHB1 ;HIRMFO/YH-HP 3/4 B/P GRAPH - FORM ;11/10/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHB2 ;HIRMFO/YH-HP 3/4 B/P GRAPH - BOX DATA ;11/10/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHB3 ;HIRMFO/YH-HP 3/4 B/P GRAPH - ID ;10/27/95
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHB4 ;HIRMFO/YH-HP 3/4 B/P GRAPH - ^TMP DATA ;11/04/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHG0 ;HIRMFO/YH-HP 3/4 SF 511 GRAPH - DATA ARRAY ;10/27/95
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHG1 ;HIRMFO/YH-HP 3/4 SF511 GRAPH - FORM ;11/3/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHG2 ;HIRMFO/YH-HP 3/4 SF 511 GRAPH - BOX DATA ;1/16/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHG3 ;HIRMFO/YH-HP 3/4 SF 511 GRAPH - ID ;12/3/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHG4 ;HIRMFO/YH-HP 3/4 SF 511 GRAPH - ^TMP DATA ;10/7/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHPO0 ;HIRMFO/YH-HP LASER PULSE OXIMETRY/RESP. GRAPH - DATA ARRAY ;2/4/97
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHPO1 ;HIRMFO/YH-HP LASER PULSE OXIMETRY/RESP. GRAPH - FORM ;2/5/97
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHPO2 ;HIRMFO/YH-HP LASER PULSE OXIMETRY/RESP. GRAPH - BOX DATA ;2/5/97
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHPO3 ;HIRMFO/YH-HP LASER PULSE OXIMETRY/RESP. GRAPH - ^TMP DATA ;2/4/97
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHW0 ;HIRMFO/YH-HP 3/4 WEIGHT CHART - DATA ARRAY ;11/15/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHW1 ;HIRMFO/YH-HP 3/4 WEIGHT CHART - FORM AND GRAPH ;11/16/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVHW2 ;HIRMFO/YH-HP 3/4 WEIGHT CHART - BOX DATA ;11/16/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVKPO0 ;HIRMFO/YH-KYOCERA PULSE OXIMETRY/RESP. GRAPH - DATA ARRAY ;2/6/97
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVKPO1 ;HIRMFO/YH-KYOCERA PULSE OXIMETRY/RESP. GRAPH - GRAPH DATA ;2/4/97
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVKPO2 ;HIRMFO/YH-KYOCERA PULSE OXIMETRY/RESP. MACRO-1 ;2/6/97

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;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVKPO3 ;HIRMFO/YH-KYOCERA PULSE OXIMETRY/RESP. GRAPH - MACRO 2 ;2/7/97
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVKPO4 ;HIRMFO/YH-VITALS GRAPH KYOCERA PRINT COMMANDS (PART 1) ;1-6-92
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVORC0 ;HIRMFO/RM,MD-CANCEL AND PURGE ACTIONS FOR AN ORDER ;4/15/95
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVORD0 ;HISC/RM,YH-OE/RR PRINT ACTION HOOKS ;11/20/95
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVORDG ;HIRMFO/RM-DGOERR EVENT DRIVER INTERFACE. ;4/2/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVORE0 ;HIRMFO/RM/YH-DRIVER TO ENTER VITAL/MEASUREMENTS ORDERS ;8/16/95
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVORE1 ;HIRMFO/RM-ORDER ENTRY ACTION (Cont.) ;11/20/95
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVORE2 ;HIRMFO/RM,MD-USER PROMPT ROUTINE ;12/10/96 11:47
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVORE3 ;HIRMFO/MD,RM-ENTRY TO STORE DATA FOR BOTH GMR ORDER RECORDS
;4/15/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVOREQ ;HIRMFO/MD,FT-QUICK ORDER PROTOCOL CREATION ;11/11/96 11:02
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVPCE0 ;HIRMFO/RM-Data Event Driver for Vitals ;7/9/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVPCE1 ;HIRMFO/RM-PCE Interface code ;8/2/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVPCE2 ;HIRMFO/RM-V/M Help for AICS ;6/28/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVPCE3 ;HIRMFO/RM-V/M Data Validation for AICS ;7/10/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVQUAL ;HIRMFO/YH-VITAL QUALIFIERS ;8/22/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVSAS0 ;HIRMFO/RM,YH-CALCULATE ABNORMAL V/S ;09/11/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVSC0 ;HIRMFO/RM,MD,YH-CUMULATIVE VITALS/MEASUREMENTS FOR PATIENT OVER
GIVEN DATE RANGE ;7/31/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVSC1 ;HIRMFO/YH-CUMULATIVE V/M - CONTINUED ;7/31/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVSC2 ;HIRMFO/YH-CUMULATIVE V/M - CONTINUED ;7/31/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVSITE ;HIRMFO/YH-V/M SITEFILE EDIT/ENTRY ;12/9/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVSR0 ;HIRMFO/RM,YH-VITAL SIGNS RECORD SF 511 ;1/17/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVSR1 ;HIRMFO/RM,YH-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 1 ;11/6/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVSR2 ;HIRMFO/YH-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 2 ;11/6/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVUT0 ;HIRMFO/RM,YH-INPUT TRANSFORMS FOR VITAL TYPES ;1/23/97
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVUT1 ;HIRMFO/YH-VITAL SIGNS INFORMATION ;6/11/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVUT2 ;HIRMFO/YH,RM-ENTRY TO GATHER PATIENT VITAL/MEASUREMENT DATA
;12/13/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVUT3 ;HIRMFO/YH-VITAL MEASUREMENT SITE/QUALIFIER SELECTIO ;1/21/97
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVUTL ;HIRMFO/RM,MD-CALLABLE ENTRY POINTS FOR PROGRAMMER UTILITIES
;12/7/90
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVUTL1 ;HIRMFO/YH-VITALS/MEASUREMENTS UTILITY ;9/10/96
;;4.0;Vitals/Measurements;;Mar 31, 1997
GMRVVS0 ;HIRMFO/YH-PATIENT INTAKE/OUTPUT REPORT ;2/25/91
;;4.0;Vitals/Measurements;;Mar 31, 1997

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Routine Descriptions

GMRVVS1 ;HIRMFO/RM,YH-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 1 ;7/27/95
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVVS2 ;HIRMFO/YH-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 2 ;7/27/95
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVVS3 ;HIRMFO/YH-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 3 ;12/29/91
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVVS4 ;HIRMFO/RM,YH-PATIENT VITAL SIGNS-GRAPH ;3/14/97
;;4.0;Vitals/Measurements;;Apr 25, 1997

GMRVWT0 ;HIRMFO/YH-KYOCERA WEIGHT GRAPH - DATA ARRAY ;10/7/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVWT1 ;HIRMFO/YH-KYOCERA WEIGHT GRAPH - GRAPH DATA ;10/26/95
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVWT2 ;HIRMFO/YH-KYOCERA WEIGHT GRAPH - MACRO ;10/7/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVWT3 ;HIRMFO/YH-KYOCERA WEIGHT GRAPH - MACRO (CONT.) ;10/7/94
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVWT4 ;HIRMFO/YH-KYOCERA WEIGHT GRAPH - MACRO CALL ;7/27/95
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVXCH0 ;HIRMFO/RM,YH-CONVERT QUALIFIER/CATEGORY FILES ;8/1/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVXCH1 ;HIRMFO/YH-NEW QUALIFIER/CATEGORY ;8/21/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVXCH2 ;HIRMFO/YH,RM-GMRV VITAL QUALIFIER FILE CONVERSION ;8/1/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVXCH3 ;HIRMFO/YH,RM-CONVERT GMRV VITAL CATEGORY FILE ;8/1/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVXCHT ;HIRMFO/RM-CONVERSION TABLE FOR QUALIFIERS ;7/22/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVXENV ;HIRMFO/RM-ENVIRONMENT CHECK FOR VITALS ;7/18/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVXPRE ;HIRMFO/RM-PREINITIALIZATION ROUTINE FOR VITALS ;7/19/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVXPST ;HIRMFO/RM-POST-INIT ROUTINE FOR VITALS ;7/23/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

GMRVXVM0 ;HIRMFO/YH,RM-GMRV VITAL MEASUREMENT CONVERSION ;8/1/96
;;4.0;Vitals/Measurements;;Mar 31, 1997

Chapter 3 File List and Related Information

File Descriptions

GMRV VITAL MEASUREMENT 120.5

This file contains vital sign information and other measurement data for a patient.

GMRV VITAL TYPE 120.51

This file contains a list of vital sign types, and various parameters which mold the data entry.

GMRV VITAL QUALIFIER 120.52

This file contains a list of qualifiers for vitals/measurements.

GMRV VITAL CATEGORY 120.53

This file contains a list of qualities or characteristics that can be affixed to a vital measurement.

GMRV ORDERS 120.55

This file contains information specific to the General Medical Record Vitals/Measurements orders.

GMRV VITALS PARAMETERS 120.57

This file contains the various site configurable parameters for the Vitals/Measurements application.

Package Default Definition

FILE #	NAME	UP DATE DD	SEND SEC. CODE	DATA COMES W/FILE	SITE DATA	RSLV PTS	USER OVER RIDE
120.5	GMRV VITAL MEASUREMENT	YES	YES	NO			
120.51	GMRV VITAL TYPE	YES	YES	YES	OVER	YES	NO
120.52	GMRV VITAL QUALIFIER	YES	YES	YES	ADD	NO	YES
120.53	GMRV VITAL CATEGORY	YES	YES	YES	ADD	NO	YES
120.55	GMRV ORDERS	YES	YES	NO			
120.57	GMRV VITALS PARAMETERS	YES	YES	YES	ADD	YES	NO

Chapter 4 Exported Options

Menu Options by Name

NAME: GMRV ADMISSION V/M MENU TEXT: TPR B/P, Ht and Wt.
TYPE: action CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS E ACTION PRESENT: YES
X ACTION PRESENT: YES
DESCRIPTION: This option allows users to enter the following
vital/measurements through a single option: temperature, pulse, respirations,
blood pressure, height and weight.
EXIT ACTION: D EXITACT^GMRVED4
ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) S GMRENTY=3 D EN2^GMRVED0
TIMESTAMP: 55194,44424 UPPERCASE MENU TEXT: TPR B/P, HT AND
WT.

NAME: GMRV CAT/QUAL TABLE
MENU TEXT: Display Vitals Category/Qualifier Table
TYPE: run routine CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS
DESCRIPTION: This option displays a list of categories and qualifiers
associated with individual vital types, e.g., blood pressure, temperature,
pulse, respirations, weight, circumference/girth and pulse oximetry. Data
comes from the GMRV Vital Qualifier (#120.52) file and the GMRV Vital
Category (#120.53) file.
ROUTINE: EN1^GMRVCAQU
UPPERCASE MENU TEXT: DISPLAY VITALS CATEGORY/QUALIF

NAME: GMRV CHANGE V/M PARAMETERS MENU TEXT: Change Date/Time Taken
TYPE: action CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS E ACTION PRESENT: YES
X ACTION PRESENT: YES
DESCRIPTION: This option allows the user to enter vitals/measurements (on
the same patient) for a different Date/Time.
EXIT ACTION: K:GMRVFLAG=2 GMRVFLAG,GMRVDBA K %,%H,%I,C,GMRROUT,GMRVIDT
ENTRY ACTION: S:'\$D(GMRVFLAG) GMRVFLAG=2 S GMRROUT=0 D DATE^GMRVED0 S:'GMRROUT
GMRVDBA=GMRROUT_"^"_GMRVIDT W:GMRROUT !,\$C(7),"Parameters unchanged!!" K
GMRROUT,GMRVIDT
UPPERCASE MENU TEXT: CHANGE DATE/TIME TAKEN

NAME: GMRV CIRCUMF/GIRTH MENU TEXT: Circumference/Girth
TYPE: action CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS E ACTION PRESENT: YES
X ACTION PRESENT: YES
DESCRIPTION: This option allows users to enter circumference/girth
measurement.
EXIT ACTION: D EXITACT^GMRVED4
ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) S GMRENTY=19 D EN2^GMRVED0
UPPERCASE MENU TEXT: CIRCUMFERENCE/GIRTH

NAME: GMRV CUMULATIVE V/M MENU TEXT: Cumulative Vitals Report
TYPE: run routine CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS
DESCRIPTION: This option prints a report containing vitals/measurement
information for a patient over a given period of time.
ROUTINE: EN4^GMRVSC0
UPPERCASE MENU TEXT: CUMULATIVE VITALS REPORT

NAME: GMRV CVP MENU TEXT: CVP (Central Venous
Pressure)
TYPE: action CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS E ACTION PRESENT: YES
X ACTION PRESENT: YES

Exported Options

DESCRIPTION: This option allows users to enter central venous pressure measurement.

EXIT ACTION: D EXITACT^GMRVED4

ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) S GMRENTY=21 D EN2^GMRVED0

UPPERCASE MENU TEXT: CVP (CENTRAL VENOUS PRESSURE)

NAME: GMRV DISPLAY V/M

MENU TEXT: Latest Vitals Display for a Patient

TYPE: run routine

CREATOR: POSTMASTER

PACKAGE: GEN. MED. REC. - VITALS

DESCRIPTION: This option displays on screen the latest vitals/measurements for a particular patient.

ROUTINE: EN2^GMRVDS0

UPPERCASE MENU TEXT: LATEST VITALS DISPLAY FOR A PA

NAME: GMRV ERROR EDIT

MENU TEXT: Edit a Vital/Measurement Entered in Error

TYPE: run routine

CREATOR: POSTMASTER

PACKAGE: GEN. MED. REC. - VITALS

DESCRIPTION: This option allows users to correct errors in vitals/measurements. A new record is created, and the old record is marked as entered in error.

ROUTINE: EN1^GMRVEE0

UPPERCASE MENU TEXT: EDIT A VITAL/MEASUREMENT ENTER

NAME: GMRV ERROR REPORT

MENU TEXT: Print Vitals Entered in Error for a Patient

TYPE: run routine

CREATOR: POSTMASTER

PACKAGE: GEN. MED. REC. - VITALS

DESCRIPTION: This option prints a report of all vitals/measurements entered in error for a particular patient for a given time span.

ROUTINE: EN1^GMRVER0

UPPERCASE MENU TEXT: PRINT VITALS ENTERED IN ERROR

NAME: GMRV EXT B/P

MENU TEXT: Detailed B/P and Associated Pulse

TYPE: action

CREATOR: POSTMASTER

PACKAGE: GEN. MED. REC. - VITALS

E ACTION PRESENT: YES

X ACTION PRESENT: YES

DESCRIPTION: This option allows users to enter detailed blood pressure and associated pulse information. In addition to the numeric values of the blood pressure and pulse readings, the site/location where the blood pressure and pulse were taken (e.g., left arm vs right arm), the position of the patient (e.g., sitting, standing) and other qualifiers are documented.

EXIT ACTION: D EXITACT^GMRVED4

ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) S GMRENTY=6 D EN2^GMRVED0

TIMESTAMP: 55273,53545

UPPERCASE MENU TEXT: DETAILED B/P AND ASSOCIATED PU

NAME: GMRV O2SATURATION

MENU TEXT: Pulse Oximetry

TYPE: action

CREATOR: POSTMASTER

PACKAGE: GEN. MED. REC. - VITALS

E ACTION PRESENT: YES

X ACTION PRESENT: YES

DESCRIPTION: This option allows users to enter pulse oximetry.

EXIT ACTION: D EXITACT^GMRVED4

ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) S GMRENTY=20 D EN2^GMRVED0

UPPERCASE MENU TEXT: PULSE OXIMETRY

NAME: GMRV PRINT MENU

MENU TEXT: Vitals/Measurements Results Reporting

TYPE: menu

CREATOR: POSTMASTER

PACKAGE: GEN. MED. REC. - VITALS

DESCRIPTION: This is the main menu for all vitals/measurements reports.

ITEM: GMRV ERROR REPORT

SYNONYM: 5

ITEM: GMRV DISPLAY V/M

SYNONYM: 2


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ITEM: GMRV SF511                                SYNONYM: 1
ITEM: GMRV V/M BY LOCATION                      SYNONYM: 3
ITEM: GMRV CUMULATIVE V/M                      SYNONYM: 4
    TIMESTAMP: 56656,39462
    UPPERCASE MENU TEXT: VITALS/MEASUREMENTS RESULTS RE

NAME: GMRV PULSE                                MENU TEXT: Pulse
    TYPE: action                                CREATOR: POSTMASTER
    E ACTION PRESENT: YES                      X ACTION PRESENT: YES
    DESCRIPTION: This option allows users to enter a patient's pulse rate.
    EXIT ACTION: D EXITACT^GMRVED4
    ENTRY ACTION: D ENTACT^GMRVED4 I $D(GMRVDBA) S GMRENTY=7 D EN2^GMRVED0
    UPPERCASE MENU TEXT: PULSE

NAME: GMRV SCHED FILE DISP
    MENU TEXT: Display Administration Schedule File
    TYPE: action                                CREATOR: POSTMASTER
    PACKAGE: GEN. MED. REC. - VITALS          E ACTION PRESENT: YES
    X ACTION PRESENT: YES
    DESCRIPTION: This option displays entries in the Administration Schedule
    file (#51.1).
    EXIT ACTION: K PSJPP,%Y
    ENTRY ACTION: Q:$S('$D(^PS(59.7,1,20)):1,1:^(20)<2.8) S PSJPP="GMRV" D
    ENSVI^PSJEEU
    UPPERCASE MENU TEXT: DISPLAY ADMINISTRATION SCHEDUL

NAME: GMRV SCHED FILE EDIT
    MENU TEXT: Edit Administration Schedules File
    TYPE: action                                CREATOR: POSTMASTER
    PACKAGE: GEN. MED. REC. - VITALS          E ACTION PRESENT: YES
    X ACTION PRESENT: YES
    DESCRIPTION: This option permits the entering and editing of entries into
    the Administration Schedule (#51.1) file.
    EXIT ACTION: K PSJPP,PSJSHLS,%X,%Y,D1,Z
    ENTRY ACTION: Q:$S('$D(^PS(59.7,1,20)):1,1:^(20)<2.8) S
    PSJPP="GMRV",PSJSHLS="I $P(^0,U,3)'="Z"" D ENSE^PSJEEU
    UPPERCASE MENU TEXT: EDIT ADMINISTRATION SCHEDULES

NAME: GMRV SF511                                MENU TEXT: V/M Graphic Reports
    TYPE: run routine                          CREATOR: POSTMASTER
    PACKAGE: GEN. MED. REC. - VITALS
    DESCRIPTION: This option prints specific Vitals/Measurements graphic
    reports including the Vital Flow Sheet (SF511), the B/P Plotting Chart (SF512-
    A), the Weight Chart (VAF10-2614f), and the Pulse Oximetry/Respiration Graph
    (SF 512).
    ROUTINE: EN1^GMRVSR0                      UPPERCASE MENU TEXT: V/M GRAPHIC
    REPORTS

NAME: GMRV SITE FILE EDIT
    MENU TEXT: Edit Vitals Site Parameter File
    TYPE: edit                                CREATOR: POSTMASTER
    PACKAGE: GEN. MED. REC. - VITALS          X ACTION PRESENT: YES
    DESCRIPTION: This option allows the ADP coordinator, and selected staff, to
    edit the vitals sign site parameters data. This includes the abnormal vitals
    ranges.
    EXIT ACTION: K %X,%Y,DI,DQ                DIC {DIC}: GMRD(120.57,
    DIC(0): AEMQ                              DIE: GMRD(120.57,
    DR {DIE}: [GMRV SITE FILE EDIT]
    UPPERCASE MENU TEXT: EDIT VITALS SITE PARAMETER FIL

NAME: GMRV SITE FILE MENU
    MENU TEXT: Vitals/Measurements Site Files Menu
    TYPE: menu                                CREATOR: POSTMASTER
    PACKAGE: GEN. MED. REC. - VITALS
    DESCRIPTION: The ADP Coordinator can use the options contained in this menu

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Exported Options

to enter: 1. Vitals sign site parameters in the GMRV Vital Type file (#120.51). 2. Vitals/measurements qualifiers in the GMRV Vital Qualifier file (#120.52). 3. Temperature and pulse default qualifiers in the GMRV Category file (#120.53). 4. Sets of standard times when vitals are to be taken (ordered) in the Administration Schedule file (#51.1). 5. Quick order protocols in the Protocol file (#101).

This menu also prints: 1. Administration schedules associated with vitals/measurements. 2. A table displaying all vital types and their associated categories and qualifiers.

ITEM: GMRV SITE FILE EDIT	SYNONYM: 1
DISPLAY ORDER: 1	
ITEM: GMRV SCHED FILE EDIT	SYNONYM: 5
DISPLAY ORDER: 5	
ITEM: GMRV SCHED FILE DISP	SYNONYM: 6
DISPLAY ORDER: 6	
ITEM: GMRVORQUICK	SYNONYM: 7
DISPLAY ORDER: 7	
ITEM: GMRV VMQUALITY	SYNONYM: 2
DISPLAY ORDER: 2	
ITEM: GMRV VMSITE	SYNONYM: 3
DISPLAY ORDER: 3	
ITEM: GMRV CAT/QUAL TABLE	SYNONYM: 4
DISPLAY ORDER: 4	
TIMESTAMP: 56994,43225	
UPPERCASE MENU TEXT: VITALS/MEASUREMENTS SITE FILES	

NAME: GMRV TPR B/P ROUTINE	MENU TEXT: TPR B/P
TYPE: action	CREATOR: POSTMASTER
E ACTION PRESENT: YES	X ACTION PRESENT: YES
DESCRIPTION: This option allows data entry of temperature, pulse, respiration and blood pressure.	
EXIT ACTION: D EXITACT^GMRVED4	
ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) S GMRENTY=2 D EN2^GMRVED0	
TIMESTAMP: 55359,54655	
UPPERCASE MENU TEXT: TPR B/P	

NAME: GMRV TPR EXT B/P	MENU TEXT: Temp, Detailed PR and B/P
TYPE: action	CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS	E ACTION PRESENT: YES
X ACTION PRESENT: YES	
DESCRIPTION: This option allows data to be entered for temperature, pulse, respiration and detailed blood pressure. Detailed blood pressure captures the numeric value of both the systolic and diastolic pressures and also associates	
(a) the site where the pressure was taken (e.g., left arm vs right arm), and	
(b) the position of the patient when the reading was taken (e.g., sitting vs standing).	
EXIT ACTION: D EXITACT^GMRVED4	
ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) S GMRENTY=5 D EN2^GMRVED0	
UPPERCASE MENU TEXT: TEMP, DETAILED PR AND B/P	

NAME: GMRV TPR ROUTINE	MENU TEXT: TPR
TYPE: action	CREATOR: POSTMASTER
E ACTION PRESENT: YES	X ACTION PRESENT: YES
DESCRIPTION: This option allows users to enter temperature, pulse, and respirations.	
EXIT ACTION: D EXITACT^GMRVED4	
ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) S GMRENTY=1 D EN2^GMRVED0	
TIMESTAMP: 55335,39135	
UPPERCASE MENU TEXT: TPR	

NAME: GMRV TPRBW	MENU TEXT: TPR, B/P and Wt.
TYPE: action	CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS	E ACTION PRESENT: YES
X ACTION PRESENT: YES	

DESCRIPTION: This option allows data to be entered for temperature, pulse, respiration, blood pressure and weight.

EXIT ACTION: D EXITACT^GMRVED4

ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) S GMRENTY=4 D EN2^GMRVED0

UPPERCASE MENU TEXT: TPR, B/P AND WT.

NAME: GMRV V/M BY LOCATION MENU TEXT: Latest Vitals by Location
 TYPE: run routine CREATOR: POSTMASTER
 PACKAGE: GEN. MED. REC. - VITALS
 DESCRIPTION: This option prints the latest vitals/measurements for all patients on a given location.
 ROUTINE: EN1^GMRVDS1
 UPPERCASE MENU TEXT: LATEST VITALS BY LOCATION

NAME: GMRV V/M ENTRY MENU MENU TEXT: Vitals/Measurement Data Entry

TYPE: menu CREATOR: POSTMASTER
 PACKAGE: GEN. MED. REC. - VITALS E ACTION PRESENT: YES
 X ACTION PRESENT: YES
 DESCRIPTION: This is the main enter/edit menu through which clinicians may document patient vital signs and selected measurements.
 ITEM: GMRV TPR ROUTINE SYNONYM: 1
 DISPLAY ORDER: 1
 ITEM: GMRV TPR B/P ROUTINE SYNONYM: 2
 DISPLAY ORDER: 2
 ITEM: GMRV PULSE SYNONYM: 7
 DISPLAY ORDER: 7
 ITEM: GMRV ADMISSION V/M SYNONYM: 3
 DISPLAY ORDER: 3
 ITEM: GMRV WEIGHT SYNONYM: 8
 DISPLAY ORDER: 8
 ITEM: GMRV TPR EXT B/P SYNONYM: 5
 DISPLAY ORDER: 5
 ITEM: GMRV CHANGE V/M PARAMETERS SYNONYM: 13
 DISPLAY ORDER: 13
 ITEM: GMRV EXT B/P SYNONYM: 6
 DISPLAY ORDER: 6
 ITEM: GMRV VMCONFIG SYNONYM: 12
 DISPLAY ORDER: 12
 ITEM: GMRV CIRCUMF/GIRTH SYNONYM: 9
 DISPLAY ORDER: 9
 ITEM: GMRV O2SATURATION SYNONYM: 10
 DISPLAY ORDER: 10
 ITEM: GMRV CVP SYNONYM: 11
 DISPLAY ORDER: 11
 ITEM: GMRV TPRBW SYNONYM: 4
 DISPLAY ORDER: 4
 EXIT ACTION: K GMRVDBA,GMRVFLAG
 ENTRY ACTION: S GMRVFLAG=1 D ENTACT^GMRVED4
 TIMESTAMP: 57037,47248
 UPPERCASE MENU TEXT: VITALS/MEASUREMENT DATA ENTRY

NAME: GMRV VMCONFIG MENU TEXT: User Configurable Combination
 TYPE: action CREATOR: POSTMASTER
 PACKAGE: GEN. MED. REC. - VITALS E ACTION PRESENT: YES
 X ACTION PRESENT: YES
 DESCRIPTION: This option allows users to select types of Vitals/Measurements from the following list to enter the data.
 1 T 2 P 3 R 4 B/P 5 Wt 6 Ht 7 Circumference/Girth 8 Pulse Oximetry 9 CVP (Central Venous Pressure)
 EXIT ACTION: D EXITACT^GMRVED4
 ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) D EN1^GMRVALL0

Exported Options

UPPERCASE MENU TEXT: USER CONFIGURABLE COMBINATION

NAME: GMRV VMQUALTY

MENU TEXT: Change Default Qualifiers for Temp./Pulse

TYPE: run routine

CREATOR: POSTMASTER

PACKAGE: GEN. MED. REC. - VITALS

DESCRIPTION: This option is for the ADP coordinator to change default qualifiers for temperature/pulse in GMRV Vital Category file (#120.53).

ROUTINE: DEFAULT^GMRVSITE

UPPERCASE MENU TEXT: CHANGE DEFAULT QUALIFIERS FOR

NAME: GMRV VMSITE

MENU TEXT: Enter/Edit Vitals

Qualifiers

TYPE: run routine

CREATOR: POSTMASTER

PACKAGE: GEN. MED. REC. - VITALS

DESCRIPTION: This option is used by the application coordinator to create and edit hospital-wide qualifiers associated with vital signs and other patient measurements captured in the Vitals/Measurements application. Data is stored in the GMRV Vital Qualifier (#120.52) file.

ROUTINE: CHAR^GMRVSITE

UPPERCASE MENU TEXT: ENTER/EDIT VITALS QUALIFIERS

NAME: GMRV WEIGHT

MENU TEXT: Weight

TYPE: action

CREATOR: POSTMASTER

E ACTION PRESENT: YES

X ACTION PRESENT: YES

DESCRIPTION: This option allows users to document a patient's weight.

EXIT ACTION: D EXITACT^GMRVED4

ENTRY ACTION: D ENTACT^GMRVED4 I \$D(GMRVDBA) S GMRENTY=8 D EN2^GMRVED0

UPPERCASE MENU TEXT: WEIGHT

NAME: GMRVMGR

MENU TEXT: Vitals/Measurement

TYPE: menu

CREATOR: POSTMASTER

PACKAGE: GEN. MED. REC. - VITALS

DESCRIPTION: This is the main menu for the vitals/measurements application. It contains options for: (1) entering patient vital/measurement data, (2) printing various vital/measurement reports, (3) editing site configurable files, and (4) displaying Administration Schedule file (#51.1), and (5) creating quick order protocols.

ITEM: GMRV V/M ENTRY MENU

SYNONYM: 1

DISPLAY ORDER: 1

ITEM: GMRV ERROR EDIT

SYNONYM: 3

DISPLAY ORDER: 3

ITEM: GMRV SITE FILE MENU

SYNONYM: 4

DISPLAY ORDER: 4

ITEM: GMRV PRINT MENU

SYNONYM: 2

DISPLAY ORDER: 2

TIMESTAMP: 56980,34311

TIMESTAMP OF PRIMARY MENU: 54271,27448

UPPERCASE MENU TEXT: VITALS/MEASUREMENT

NAME: GMRVORQUICK

MENU TEXT: Create Vital Measurement Quick Order Protocol

TYPE: run routine

CREATOR: POSTMASTER

PACKAGE: GEN. MED. REC. - I/O

DESCRIPTION: This option allows users to create quick order protocols in which the prompts are displayed with default values or not displayed and the default values are automatically entered.

ROUTINE: EN1^GMRVOREQ

TIMESTAMP: 55441,53302

UPPERCASE MENU TEXT: CREATE VITAL MEASUREMENT QUICK

Protocols by Name

NAME: GMRVORADMIT V/M
 TYPE: limited protocol
 PACKAGE: GEN. MED. REC. - VITALS
 ITEM: GMRVORTEMP
 ITEM: GMRVORPULSE
 ITEM: GMRVORRESP
 ITEM: GMRVORB/P
 ITEM: GMRVORHT
 ITEM: GMRVORWT
 ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) D
 EN1^GMRVORE0
 TIMESTAMP: 56988,31153

ITEM TEXT: TPR-B/P-Ht.-Wt.
 CREATOR: POSTMASTER

NAME: GMRVORB/P
 TYPE: protocol
 PACKAGE: GEN. MED. REC. - VITALS
 ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) D
 EN1^GMRVORE0
 TIMESTAMP: 56988,31153

ITEM TEXT: B/P
 CREATOR: POSTMASTER

NAME: GMRVORCG
 TYPE: protocol
 PACKAGE: GEN. MED. REC. - VITALS
 ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) D
 EN1^GMRVORE0
 TIMESTAMP: 57042,47669

ITEM TEXT: CIRCUMFERENCE/GIRTH
 CREATOR: POSTMASTER

NAME: GMRVORCVP
 TYPE: protocol
 PACKAGE: GEN. MED. REC. - VITALS
 ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) D
 EN1^GMRVORE0
 TIMESTAMP: 57042,47626

ITEM TEXT: CENTRAL VENOUS PRESSURE
 CREATOR: POSTMASTER

NAME: GMRVORHT
 TYPE: protocol
 PACKAGE: GEN. MED. REC. - VITALS
 ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) D
 EN1^GMRVORE0
 TIMESTAMP: 56988,31153

ITEM TEXT: HEIGHT
 CREATOR: POSTMASTER

NAME: GMRVORMENU
 TYPE: protocol menu
 PACKAGE: GEN. MED. REC. - VITALS
 ITEM: GMRVORTPR
 SEQUENCE: 1
 ITEM: GMRVORTPR B/P
 SEQUENCE: 2
 ITEM: GMRVORADMIT V/M
 SEQUENCE: 5
 ITEM: GMRVORPULSE
 SEQUENCE: 3
 ITEM: GMRVORB/P
 SEQUENCE: 4
 ITEM: GMRVORWT
 SEQUENCE: 6
 ITEM: GMRVORTEMP
 SEQUENCE: 7

ITEM TEXT: Vital/Measurements
 CREATOR: POSTMASTER
 COLUMN WIDTH: 40
 MNEMONIC: 1
 MNEMONIC: 2
 MNEMONIC: 5
 MNEMONIC: 3
 MNEMONIC: 4
 MNEMONIC: 6
 MNEMONIC: 7

Exported Options

ITEM: GMRVORRESP
SEQUENCE: 8
ITEM: GMRVORHT
SEQUENCE: 9
TIMESTAMP: 56988,31153

MNEMONIC: 8
MNEMONIC: 9

NAME: GMRVORP CUM REPORT
TYPE: action
PACKAGE: GEN. MED. REC. - VITALS
DESCRIPTION: This option will create the protocol for the Cumulative Vitals report.
EXIT ACTION: K DFN
ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,'\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) S
DFN=+ORVP D EN2^GMRVSC0
TIMESTAMP: 56988,31153

ITEM TEXT: Cumulative Vitals Report
CREATOR: POSTMASTER

NAME: GMRVORP DISP VITALS
TYPE: action
PACKAGE: GEN. MED. REC. - VITALS
DESCRIPTION: This option will create the protocol for the latest vitals display.
EXIT ACTION: K DFN
ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,'\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) S
DFN=+ORVP D EN3^GMRVDS0
TIMESTAMP: 56988,31153

ITEM TEXT: Latest Vitals Display
CREATOR: POSTMASTER

NAME: GMRVORPO
TYPE: protocol
PACKAGE: GEN. MED. REC. - VITALS
ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,'\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) D
EN1^GMRVORE0
TIMESTAMP: 57042,47641

ITEM TEXT: PULSE OXIMETRY
CREATOR: POSTMASTER

NAME: GMRVOR DGPM
TYPE: extended action
PACKAGE: GEN. MED. REC. - VITALS
DESCRIPTION: This option will become the GMRVOR DGPM protocol, and should be linked to the DGOERR TRANSFER EVENTS protocol. This protocol will perform events that are appropriate for the GMRV pacakge.
FILE LINK: 4499;DIC(19,
ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,'\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) D
EN4^GMRVORDG
TIMESTAMP: 56988,31153

ITEM TEXT: GMRV Transfer Events
CREATOR: POSTMASTER

NAME: GMRVORP SF511
TYPE: action
PACKAGE: GEN. MED. REC. - VITALS
DESCRIPTION: This is the option that will create the protocol for the SF511 Patient Profile in OERR.
EXIT ACTION: K DFN
ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,'\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) S
DFN=+ORVP D EN4^GMRVSR0
TIMESTAMP: 56988,31153

ITEM TEXT: SF511 Vitals Report
CREATOR: POSTMASTER

NAME: GMRVORPULSE
TYPE: protocol
PACKAGE: GEN. MED. REC. - VITALS
ENTRY ACTION: Q:\$S('\$D(^ORD(100.99)):1,'\$D(^PS(59.7,1,20)):1,1:^(20)<2.8) D
EN1^GMRVORE0

ITEM TEXT: PULSE
CREATOR: POSTMASTER

TIMESTAMP: 56988,31153

```

NAME: GMRVORRESP                                ITEM TEXT: RESPIRATION
TYPE: protocol                                CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS
ENTRY ACTION: Q:$S('$D(^ORD(100.99)):1,'$D(^PS(59.7,1,20)):1,1:^(20)<2.8)  D
EN1^GMRVORE0
TIMESTAMP: 56988,31153

```

```

NAME: GMRVORTEMP                                ITEM TEXT: TEMPERATURE
TYPE: protocol                                CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS
ENTRY ACTION: Q:$S('$D(^ORD(100.99)):1,'$D(^PS(59.7,1,20)):1,1:^(20)<2.8)  D
EN1^GMRVORE0
TIMESTAMP: 56988,31153

```

```

NAME: GMRVORTPR                                ITEM TEXT: TPR
TYPE: limited protocol                        CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS
ITEM: GMRVORTEMP
ITEM: GMRVORPULSE
ITEM: GMRVORRESP
ENTRY ACTION: D EN1^GMRVORE0                  TIMESTAMP: 56988,31153

```

```

NAME: GMRVORTPR B/P                            ITEM TEXT: TPR B/P
TYPE: limited protocol                        CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS
ITEM: GMRVORTEMP
ITEM: GMRVORPULSE
ITEM: GMRVORRESP
ITEM: GMRVORB/P
ENTRY ACTION: Q:$S('$D(^ORD(100.99)):1,'$D(^PS(59.7,1,20)):1,1:^(20)<2.8)  D
EN1^GMRVORE0
TIMESTAMP: 56988,31153

```

```

NAME: GMRVORWT                                ITEM TEXT: WEIGHT
TYPE: protocol                                CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS
ENTRY ACTION: Q:$S('$D(^ORD(100.99)):1,'$D(^PS(59.7,1,20)):1,1:^(20)<2.8)  D
EN1^GMRVORE0
TIMESTAMP: 56988,31153

```


Chapter 5 Cross-References

Included in this section is the information about the cross-references of the application.

GMRV VITAL MEASUREMENT (120.5) FILE

DATE/TIME VITALS TAKEN

NAME: B

DESCRIPTION: This cross-reference is automatically created on .01 field.

NAME: AA01

DESCRIPTION: This MUMPS cross-reference sorts the vital/measurement records by the VITAL TYPE (.03) and the inverted DATE/TIME VITALS TAKEN (.01) for a patient.

PATIENT

NAME: C

DESCRIPTION: This regular cross-reference is used to sort the vital/measurement records by patient.

NAME: AA02

DESCRIPTION: This MUMPS cross-reference is created to sort the vital/measurement records by the VITAL TYPE (.03) and the inverted DATE/TIME VITALS TAKEN (.01) for a patient.

VITAL TYPE

NAME: T

DESCRIPTION: This regular cross-reference is created to sort the file by the type of measurement.

NAME: AA03

DESCRIPTION: This MUMPS cross-reference is created to index a patient's vital/measurement data by the VITAL TYPE (.03) and the inverted DATE/TIME VITALS TAKEN (.01).

GMRV VITAL TYPE (120.51) FILE

NAME

NAME: B

DESCRIPTION: This cross-reference is automatically created on .01 field.

ABBREVIATION

NAME: C

DESCRIPTION: This regular cross-reference is created to sort the file by the ABBREVIATION and the associated NAME (.01).

PCE ABBREVIATION

NAME: APCE

DESCRIPTION: This regular cross-reference is created to sort the file by the PCE Abbreviation (Patient Care Encounter).

GMRV VITAL QUALIFIER (120.52) FILE

Cross-References

QUALIFIER

NAME: B

DESCRIPTION: This cross-reference is automatically created on .01 field.

NAME: ACHR

DESCRIPTION: This MUMPS cross-reference sets the "AA" index on the GMRV Vital Qualifier (120.52) file.

VITAL TYPE (120.521) SUB-FILE

VITAL TYPE

NAME: B

DESCRIPTION: This cross-reference is automatically created on .01 field.

NAME: C

DESCRIPTION: This regular cross-reference is created to sort the file by VITAL TYPE and the associated vital site NAME (.01).

NAME: ATYP

DESCRIPTION: This MUMPS cross-reference sets the "AA" index on the GMRV Vital Qualifier (120.52) file.

CATEGORY

NAME: ACAT

DESCRIPTION: This MUMPS cross-reference sets the "AA" index on the GMRV Vital Qualifier (120.52) file.

NAME: D

DESCRIPTION: This is a regular cross-reference of the Category (.02) field of the Vital Type (120.521) subfile on the entire GMRV Vital Qualifier (120.52) file.

OLD RECORD NUMBER

NAME: AOLD

DESCRIPTION: This cross-reference is a regular index on the Old Record Number field, which will be used in the conversion to find the new Characteristic IEN for the old Site and Quality data.

GMRV VITAL CATEGORY (120.53) FILE

CATEGORY

NAME: B

DESCRIPTION: This cross-reference is automatically created on NAME field.

NAME: ACAT

DESCRIPTION: This MUMPS cross-reference sets up the "AA" index of the GMRV Category (120.53) file.

VITAL TYPE (120.531) SUB-FILE

VITAL TYPE

NAME: B

DESCRIPTION: This cross-reference is automatically created on .01 field.

NAME: C

DESCRIPTION: This regular cross-reference is created to sort the file by the VITAL TYPE and the associated vital qualifiers (NAME .01 field).

NAME: ATYP
 DESCRIPTION: This MUMPS cross-reference sets up the "AA", "AEDIT" and "APRINT" indices on the GMRV Category (120.53) file.

PRINT ORDER

NAME: APRT
 DESCRIPTION: This MUMPS cross-reference sets up the "APRINT" index on the GMRV Category (120.53) file.

EDIT ORDER

NAME: AEDT
 DESCRIPTION: This MUMPS cross-reference sets up the "AEDIT" index on the GMRV Category (120.53) file.

GMRV ORDERS (120.55) FILE

NAME

NAME: B
 DESCRIPTION: This cross-reference is automatically created on .01 field.

GMRV VITALS PARAMETERS (120.57) FILE

NAME

NAME: B
 DESCRIPTION: This cross-reference is automatically created on .01 field.

Chapter 6 Archiving and Purging

This chapter describes how IRMS personnel may use FileMan's archiving capability to archive and purge Vitals/Measurements data from the GMRV Vital Measurement (#120.5) file. The data resides in the GMR global.

The FileMan Archive utility builds an index in the archive file of the records saved based on the .01 field and its identifiers (i.e., .02 and .03).

Have your FileMan (V. 21.0) User Manual handy and opened to the Archiving Options chapter (page 291).

1) Select the entries you want to archive. Perhaps experiment by saving all the entries for a given year (e.g., 1991) or try this on your test system first.

```
> D P^DI
```

```
VA FileMan 21.0
```

```
Select OPTION: ?
```

```
Answer with OPTION NUMBER, or NAME
```

```
Choose from:
```

- | | |
|---|----------------------------|
| 1 | ENTER OR EDIT FILE ENTRIES |
| 2 | PRINT FILE ENTRIES |
| 3 | SEARCH FILE ENTRIES |
| 4 | MODIFY FILE ATTRIBUTES |
| 5 | INQUIRE TO FILE ENTRIES |
| 6 | UTILITY FUNCTIONS |
| 7 | OTHER OPTIONS |
| 8 | DATA DICTIONARY UTILITIES |
| 9 | TRANSFER ENTRIES |

```
Select OPTION: 7 OTHER OPTIONS
```

```
Select OTHER OPTION: ?
```

```
Answer with OTHER OPTION NUMBER, or NAME
```

```
Choose from:
```

- | | |
|---|-------------------------------|
| 1 | FILEGRAMS |
| 2 | ARCHIVING |
| 3 | AUDITING |
| 4 | SCREENMAN |
| 5 | STATISTICS |
| 6 | EXTRACT DATA TO FILEMAN FILE |
| 7 | DATA EXPORT TO FOREIGN FORMAT |
| 8 | BROWSER |

```
Select OTHER OPTION: 2 ARCHIVING
```

```
Select ARCHIVE OPTION: ??
```

Archiving and Purging

Choose from:

- 1 SELECT ENTRIES TO ARCHIVE
- 2 ADD/DELETE SELECTED ENTRIES
- 3 PRINT SELECTED ENTRIES
- 4 CREATE FILEGRAM ARCHIVING TEMPLATE
- 5 WRITE ENTRIES TO TEMPORARY STORAGE
- 6 MOVE ARCHIVED DATA TO PERMANENT STORAGE
- 7 PURGE STORED ENTRIES
- 8 CANCEL ARCHIVAL SELECTION
- 9 FIND ARCHIVED ENTRIES

Select ARCHIVE OPTION: **1** SELECT ENTRIES TO ARCHIVE

ARCHIVE FROM WHAT FILE: **GMRV VITAL MEASUREMENT**

-A- SEARCH FOR GMRV VITAL MEASUREMENT FIELD: **.01** DATE/TIME VITALS TAKEN

-A- CONDITION: **LESS THAN**

-A- LESS THAN DATE: **1/1/86** (JAN 01, 1986) <----Enter the cutoff date to stop archiving.

-B- SEARCH FOR GMRV VITAL MEASUREMENT FIELD: **<RET>**

IF: A// **<ret>** DATE/TIME VITALS TAKEN LESS THAN JAN 1,1986 (1/1/86)

STORE RESULTS OF SEARCH IN TEMPLATE: **GMRV VITAL MEASUREMENT**

Are you adding 'GMRV VITAL MEASUREMENT' as <----Enter a name for the search template
a new SORT TEMPLATE? **Y** (Yes)

just created.

DESCRIPTION:

No existing text

Edit? NO// **Y** YES <----Optional.

==[WRAP]==[INSERT]===== < DESCRIPTION >===== [<PF1>H=Help
An archiving search template for v/m for entries before 1/1/86.

<=====T=====T=====T=====T=====T=====T=====T=====T=====T=====T=>

SORT BY: DATE/TIME VITALS TAKEN// **<RET>**

START WITH DATE/TIME VITALS TAKEN: FIRST// **<RET>**

FIRST PRINT FIELD: **[captionED** <----Enter CAPTIONED to get field names and values.

Include COMPUTED fields: (N/Y/R/B): NO// **B** BOTH Computed Fields and
Record Number (IEN)

Heading (S/C): GMRV VITAL MEASUREMENT ARCHIVE SEARCH

Replace **<RET>**

DEVICE: Enter appropriate device

2) Create a FileGram template to hold the data while moving it from the database to the storage medium.

Select ARCHIVE OPTION: **4** CREATE FILEGRAM ARCHIVING TEMPLATE

OUTPUT FROM WHAT FILE: GMRV VITAL MEASUREMENT// **<RET>**

FIRST SEND GMRV VITAL MEASUREMENT FIELD: **ALL** Do you mean ALL the fields
in the file? No// **Y** (Yes)

THEN SEND GMRV VITAL MEASUREMENT FIELD: <RET>

STORE ARCHIVE LOGIC IN TEMPLATE: **GMRV V/M ARCHIVE** <---Enter a name for the
FileGram template
created.

Are you adding 'GMRV V/M ARCHIVE' as a new PRINT TEMPLATE? **Y** (Yes)

3) Move the data into temporary storage (i.e., FileGram).

```
Select ARCHIVE OPTION: 5  WRITE ENTRIES TO TEMPORARY STORAGE
```

Select ARCHIVAL ACTIVITY: ?

Answer with ARCHIVAL ACTIVITY ARCHIVE NUMBER, or FILE:

1	GMRV VITAL MEASUREMENT	10-16-96	SELECTED
---	------------------------	----------	----------

SELECTOR:TRAXLER,FRANK ARCHIVING

Select ARCHIVAL ACTIVITY: 1 GMRV VITAL MEASUREMENT 10-16-96

SELECTED SELECTOR:TRAXLER,FRANK ARCHIVING

You MUST enter a FILEGRAM template name. This FILEGRAM template will be used to actually build the archive message.

```
PRINT TEMPLATE:  GMRV V/M ARCHIVE  GMRV V/M ARCHIVE      **FILEGRAM**
                  (Oct 16, 1996)      User #1168 File #120.5
```

DEVICE: Enter appropriate device

4) Move the data to the permanent storage medium (e.g., diskette, tape, CD-Rom) to finish archiving the data.

```
Select ARCHIVE OPTION: 6      MOVE ARCHIVED DATA TO PERMANENT STORAGE
```

Select ARCHIVAL ACTIVITY: ?

Answer with ARCHIVAL ACTIVITY ARCHIVE NUMBER, or FILE:

1	GMRV VITAL MEASUREMENT	10-16-96	ARCHIVED (TEMPORARY)
---	------------------------	----------	----------------------

SELECTOR:TRAXLER,FRANK ARCHIVING

Select ARCHIVAL ACTIVITY: 1 GMRV VITAL MEASUREMENT 10-16-96

ARCHIVED (TEMPORARY) SELECTOR: TRAXLER, FRANK ARCHIVING

NOTE: This option will 1) print an archive activity report to specified PRINTER DEVICE and 2) will move archive data to permanent storage to specified ARCHIVE STORAGE DEVICE.

Select some type of SEQUENTIAL media, such as SDP, TAPE, or DISK FILE (HFS), for archival storage.

PRINTER_DEVICE: P-SLAVE-PC

<---Select device to print archive activity report.

ARCHIVE STORAGE DEVICE: RMS FILE

<----Select permanent storage device, see page 298 of a FM User Manual for additional information.

Archiving and Purging

HOST FILE NAME: DAD.DAT//**FPT.DAT** <----Enter the name of the file which will
hold the archived records.

INPUT/OUTPUT OPERATION: ?

Enter one of the following host file input/output operation:

R = READONLY
N = NEWVERSION
RW = READ/WRITE

INPUT/OUTPUT OPERATION: **RW**

ARCHIVE DEVICE LABEL: VA4\$:[TRAX]FPT.DAT;// <**RET**> VA4\$:[TRAX]FPT.DAT;

Select ARCHIVE OPTION: <**RET**>

5) Run the PURGE STORED ENTRIES option to purge the entries from File 120.5.

Chapter 7 Callable Routines

There are no callable routines.

Chapter 8 External Relations

1. The following *VISTA* applications must reside in the system before Vitals/Measurements, Version 4.0 can be installed:
 - a. VA FileMan V. 21 or greater,
 - b. Kernel V. 8.0 or greater,
 - c. Kernel Toolkit V. 7.3 or greater,
 - d. PIMS (MAS) V. 5.3 or greater,
 - e. Intake and Output V. 4.0,
 - f. Health Summary V. 2.7 or greater.
 - g. If you are using Order Entry/Results Reporting (OE/RR), V. 2.5 or greater, the Administration Schedule (#51.1) file of Inpatient Medications V. 4.5 or greater must be installed.
2. Existing integration agreements between the Vitals/Measurements software and other *VISTA* applications are summarized below.

DBIA's where the Vitals/Measurements package is the subscriber:

```
      861      NAME: OR
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT          Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
      USAGE: Controlled Subscri APPROVED: APPROVED
      STATUS: Active                EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
      FILE:                        ROOT:
DESCRIPTION:                      TYPE: Routine

ROUTINE: OR
COMPONENT: EN
VARIABLES: X          Input          Variable pointer of the protocol.
                                OE/RR Processor. This is the main entry point to run the
                                OE/RR program. It is called with X set as a variable
                                pointer to the initial protocol.

                                *****

      862      NAME: ORUHDR
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT          Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
      USAGE: Controlled Subscri APPROVED: APPROVED
      STATUS: Active                EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
      FILE:                        ROOT:
DESCRIPTION:                      TYPE: Routine

ROUTINE: ORUHDR
COMPONENT: EXT
VARIABLES: ORIFN      Both          Internal number in file 100 of the order
                                to display.
                                ORAGE      Output      Patient age.
                                ORIO      Output
                                ORANSI     Output
                                ORDOB      Output      Patient Date of Birth
                                ORFT      Output
                                ORHI      Output
                                ORNP      Output
                                Pointer to file 200 for Current
                                Agent/Provider
```

External Relations

ORL	Output	Variable pointer to the variable pointer.
ORPD	Output	
ORPNM	Output	Patient name
ORPV	Output	Pointer to Provider file for the person requesting the order.
ORSEQ	Output	
ORSEX	Output	Patient sex.
ORSSN	Output	Patient SSN
ORTIT	Output	Title
ORTS	Output	Pointer to Treating Specialty associated with the order.
ORVP	Output	Variable pointer toe object of an order.
ORWARD	Output	Inpatient Ward location
Displays a standard header for detailed order displays. If calling this from within OE/RR, it is not necessary to killthe returned variables. OE/RR will kill them.		
COMPONENT:	PGBRK	
VARIABLES:	DIROUT	Output
		User entered a '^'
	OREND	Output
		User entered a '^'
Displays 'Press return to continue or '^' to escape' at page breaks.		

863	NAME:	ORUPREF2	
CUSTODIAL	PACKAGE:	ORDER ENTRY/RESULT	Salt Lake City
SUBSCRIBING	PACKAGE:	VITALS/MEASUREMENT	Chicago
	USAGE:	Controlled Subscri	APPROVED: APPROVED
	STATUS:	Active	EXPIRES:
	DURATION:	Till Otherwise Agr	VERSION:
	FILE:		ROOT:
	DESCRIPTION:		TYPE: Routine

ROUTINE:	ORUPREF2	
COMPONENT:	EN3	
VARIABLES:	ORPKG	Input
		Package pointer.
	ORDEF	Input
		Default protocol for setting up protocols.
	ORFL	Input
		File link - variable pointer for procedure file.
	ORDANM	Input
		Optional name of the protocol.
	ORDA	Input
		Internal number of an existing protocol to be updated.
	OREA	Input
		Action used in lieu of default defined in OROEF.
	ORTXT	Input
		Name of protocol; if not defined, the .01 filed of the procedure referenced is used.
Utility for 'on-the-fly' protocol creation. See OE/RR Developers guide.		

864	NAME:	ORUTL	
CUSTODIAL	PACKAGE:	ORDER ENTRY/RESULT	Salt Lake City
SUBSCRIBING	PACKAGE:	VITALS/MEASUREMENT	Chicago
	USAGE:	Controlled Subscri	APPROVED: APPROVED

```

STATUS: Active          EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
FILE:                  ROOT:
DESCRIPTION:           TYPE: Routine

```

```

ROUTINE: ORUTL
COMPONENT: READ
VARIABLES:

```

```

865      NAME: ORVOM
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT          Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
      USAGE: Controlled Subscri APPROVED: APPROVED
      STATUS: Active          EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
      FILE:                  ROOT:
DESCRIPTION:           TYPE: Routine

```

```

ROUTINE: ORVOM

```

```

866      NAME: ORX
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT          Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
      USAGE: Controlled Subscri APPROVED: APPROVED
      STATUS: Active          EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
      FILE:                  ROOT:
DESCRIPTION:           TYPE: Routine

```

```

ROUTINE: ORX
COMPONENT: FILE
VARIABLES: OREPDUZ      Input      DUZ of the person entering the order.
          ORL           Input      Variable pointer to the variable pointer.
          ORPCL         Input      Variable pointer to the protocol that
                                   created the order.
          ORNP          Input      Pointer to file 200 for Current
                                   Agent/Provider
          ORVP          Input      Variable pointer to the object of an
                                   order.
          ORCOST         Input      Cost of the order
          OREVENT        Input      Two piece variable delimited by a
                                   semicolon. The first piece is the time
                                   at which an event should occur. The
                                   second piece is a character that has
                                   meaning to a package.
          ORIT          Input      Variable pointer to the item ordered.
          ORLOG          Input      Time the order is entered.
          ORPK           Input      Package reference defined by the package
                                   when an order is created.
          ORPURG         Input      Grace days before an order is purged.
          ORSTOP         Input      Order Stop Date
          ORSTRT         Input      Order start date
          ORSTS          Input      Order status
          ORTO           Input      Pointer to Display Group file. Identifies
                                   the service receiving the order.
          ORTS           Input

```

External Relations

			Pointer to Treating Specialty associated with the order.
	ORTX(i)	Input	
	ORIFN	Output	Order Text.
			Internal entry number of order in file 100
COMPONENT:	RETURN		
VARIABLES:	ORIFN	Input	Internal entry number of order.
	ORETURN(OR	Input	Cost of the order.
	ORETURN(OR	Input	Two piece variable delimited by a semicolon. The first piece is the time at which an event should occur. The second piece is a character that has meaning to a package.
	ORETURN(OR	Input	Variable pointer to the item ordered.
	ORETURN(OR	Input	Free text, package defined reference.
	ORETURN(OR	Input	Grace period before purging order.
	ORETURN(OR	Input	Pointer to file 200 for Current Agent/Provider
	ORETURN(OR	Input	Stop Date
	ORETURN(OR	Input	Start Date
	ORETURN(OR	Input	Pointer to Order Status
	ORETURN(OR	Input	Order Text
COMPONENT:	ST		
VARIABLES:	ORIFN	Input	Internal entry number of the order.
	ORSTS	Input	Order Status

867	NAME: ORX2		
CUSTODIAL PACKAGE:	ORDER ENTRY/RESULT		Salt Lake City
SUBSCRIBING PACKAGE:	VITALS/MEASUREMENT		Chicago
USAGE:	Controlled Subscri	APPROVED:	APPROVED
STATUS:	Active	EXPIRES:	
DURATION:	Till Otherwise Agr	VERSION:	
FILE:		ROOT:	
DESCRIPTION:		TYPE:	Routine

ROUTINE: ORX2

COMPONENT:	LK		
VARIABLES:	X	Input	Variable pointer of patient.
	Y	Output	Y=1 if lock is successful, 0 if failed.
			Used when updating orders for a patient to check that someone else is not also updating orders at the same time for the same patient. This will attempt to set a software lock on the patient. Applications using this entry point must also call the entry point ULK^ORX2 to unlock the patient when the updating process is finished.
COMPONENT:	ULK		
VARIABLES:	X	Input	Variable pointer to the patient.
			Used in conjunction with the entry point LK^ORX2 to unlock a patient during the process of adding orders. Do not call this entry point unless you have already successfully locked the patient.

868	NAME: ORX3		
-----	------------	--	--

```

CUSTODIAL PACKAGE: ORDER ENTRY/RESULT          Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
                   USAGE: Controlled Subscri APPROVED: APPROVED
                   STATUS: Active                EXPIRES:
                   DURATION: Till Otherwise Agr  VERSION:
                   FILE:                          ROOT:
DESCRIPTION:                                     TYPE: Routine

ROUTINE: ORX3
COMPONENT: NOTE
VARIABLES: ORNOTE(i)   Input
                                i=internal # of the notification
                   ORVP      Input
                                Variable pointer to the patient.
                   ORIFN     Input
                                Order number that you want this
                                notification to linked to.
This is an entry point that creates a notification for a
package.

```

```

869      NAME: ORX5
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT          Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
                   USAGE: Controlled Subscri APPROVED: APPROVED
                   STATUS: Active                EXPIRES:
                   DURATION: Till Otherwise Agr  VERSION:
                   FILE:                          ROOT:
DESCRIPTION:                                     TYPE: Routine

ROUTINE: ORX5
COMPONENT: DC
VARIABLES: ORIFN      Input
                                Pointer to the order.
This entry is called when a package needs to create a DC
order.
COMPONENT: HOLD
VARIABLES: ORIFN      Input
                                Pointer to the order.
This entry is called when a package needs to place a HOLD
on an ordered item.

```

```

870      NAME: ORX7
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT          Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
                   USAGE: Controlled Subscri APPROVED: APPROVED
                   STATUS: Active                EXPIRES:
                   DURATION: Till Otherwise Agr  VERSION:
                   FILE:                          ROOT:
DESCRIPTION:                                     TYPE: Routine

ROUTINE: ORX7
COMPONENT: DC
VARIABLES: ORIFN      Input
                                Pointer to the order.
                   ORNATR     Input
                                Identifies the Nature of Order.
This entry point is provided for orders that are
discontinued by the service. This creates a DC order for
the order identified by ORIFN.

```

```

871      NAME: ORX8
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT          Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
                   USAGE: Controlled Subscri APPROVED: APPROVED
                   STATUS: Active                EXPIRES:
                   DURATION: Till Otherwise Agr  VERSION:
                   FILE:                          ROOT:
DESCRIPTION:                                     TYPE: Routine

```

External Relations

```
ROUTINE: ORX8
COMPONENT: EN(ORIFN)
VARIABLES: ORIFN      Input
                        Pointer to the order.
ORUPCHUK(' Output
           =WHO ENTERED^External Format
ORUPCHUK(' Output
           =PATIENT LOCATION
ORUPCHUK(' Output
           =CURRENT AGENT/PROVIDER^External format
ORUPCHUK(' Output
           =WHEN ENTERED
ORUPCHUK(' Output
           =PROTOCOL
ORUPCHUK(' Output
           =CURRENT AGENT/PROVIDER^External Format
ORUPCHUK(' Output
           =STOP DATE
ORUPCHUK(' Output
           =CURRENT START DATE
ORUPCHUK(' Output
           =STATUS^External format
ORUPCHUK(' Output
           =TO (display group)^External Format
ORUPCHUK(' Output
           =ORDER TEXT (Multiple)
ORUPCHUK(' Output
           =OBJECT OF ORDER
      This entry point returns data from the Order file (100) for
      a particular order.
COMPONENT: NOTIF(ORIFN,ORNOTE)
VARIABLES: ORIFN      Input
                        Pointer to the order
ORNOTE      Input
                        Pointer to the notification

*****

872      NAME: File 101
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT      Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT      Chicago
      USAGE: Controlled Subscri APPROVED: APPROVED
      STATUS: Active      EXPIRES:
      DURATION: Till Otherwise Agr VERSION:
      FILE: 101      ROOT: ORD(101,
      DESCRIPTION:      TYPE: File
This file may be referenced by packages to maintain protocols within their
namespace. This file may also be pointed to.

ROUTINE:

*****

873      NAME: File 100.98
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT      Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT      Chicago
      USAGE: Controlled Subscri APPROVED: APPROVED
      STATUS: Active      EXPIRES:
      DURATION: Till Otherwise Agr VERSION:
      FILE: 100.98      ROOT: ORD(100.98,
      DESCRIPTION:      TYPE: File
This file may be referenced to determine an appropriate Display Group for
an order in the manner:
      S ORTO=$O(^ORD(100.98,'B','OTHER HOSPITAL SERVICES',0))

ROUTINE:

*****

874      NAME: File 100.99
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT      Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT      Chicago
      USAGE: Controlled Subscri APPROVED: APPROVED
      STATUS: Active      EXPIRES:
      DURATION: Till Otherwise Agr VERSION:
```



```

      FILE: 100.99                      ROOT: ORD(100.99,
DESCRIPTION:                          TYPE: File
This file may be referenced by packages interfacing with OE/RR to see if
OE/RR has been installed in the manner:
I $D(^ORD(100.99)) ...

```

Packages may also setup entries in the Package Parameters portion of this file.

ROUTINE:

```

      875      NAME: File 100.01
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT          Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
      USAGE: Controlled Subscri APPROVED: APPROVED
      STATUS: Active                      EXPIRES:
      DURATION: Till Otherwise Agr VERSION:
      FILE: 100.01                      ROOT: ORD(100.01,
DESCRIPTION:                          TYPE: File
This file may be pointed to.

```

ROUTINE:

```

      901      NAME: PSJEEU
CUSTODIAL PACKAGE: INPATIENT MEDICATI          Birmingham
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
      USAGE: Controlled Subscri APPROVED: APPROVED
      STATUS: Active                      EXPIRES:
      DURATION: Till Otherwise Agr VERSION:
      FILE:                               ROOT:
DESCRIPTION:                               TYPE: Routine
This is a set of utilities that can be used to create, validate and
process order timing schedules.

ROUTINE: PSJEEU
COMPONENT:  ENSE
VARIABLES:  PSJPP      Input      This is the package prefix as found in
                                   the PACKAGE file (9.4).

      PSJSHLS      Input      This is executable code that sets $T to
                                   be used to screen Hospital Locations when
                                   editing schedules and shifts. If PSJSHLS
                                   exists, DIC("S") is set to PSJSHLS. The
                                   scheduler will not try to validate
                                   PSJSHLS.
                                   Allows the editing of the ADMINISTRATION SCHEDULE file
                                   (51.1).
COMPONENT:  ENSHE
VARIABLES:  PSJPP      Input      This is the package prefix as found in
                                   the PACKAGE file (9.4).

      PSJSHLS      Input      This is executable code that sets $T to
                                   be used to screen Hospital Locations when
                                   editing schedules and shifts. If PSJSHLS
                                   exists, DIC("S") is set to PSJSHLS. The
                                   scheduler will not try to validate
                                   PSJSHLS.
                                   Allows the editing of the ADMINISTRATION SHIFT file
                                   (51.15).
COMPONENT:  ENSVI
VARIABLES:  PSJPP      Input      This is the package prefix as found in
                                   the PACKAGE file (9.4).

      PSJX      Input      This is the schdule to be viewed. If only
                                   the first few characters of the schedule
                                   name is entered, the user will be asked
                                   to select from all schedules in the
                                   ADMINISTRATION SCHEDULE file (51.1)

```

External Relations

			beginning with these characters. If a valid schedule is selected, information pertaining to the schedule will be displayed.
			View standard schedule information.
COMPONENT:	ENSV		
VARIABLES:	PSJX	Both	This is the schdule to be validated. If only the first few characters of the schedule name is entered, the user will be asked to select from all schedules in the ADMINISTRATION SCHEDULE file (51.1) beginning with these characters. If a valid schedule is selected, it's name will will be returned in PSJX. If a valid schedule is not selected, PSJX will be killed.
	PSJPP	Input	This is the package prefix as found in the PACKAGE file (9.4).
	PSJM	Output	This is the frequency in minutes that the action is to be taken. This will be null if PSGX is invalid.
	PSJAT	Output	These are the administration times or shifts that are associated with the selected schedule. This will be null if PSGX is invalid.
	PSJY	Output	This is a pointer to the ADMINISTRATION SCHEDULE file (51.1) if PSJX is found in the file. This will be null if PSJX is invalid or not found.
	PSJTS	Output	This is a code representing the type of schedule. This will be null if the schedule is invalid.
	PSJAX	Output	This is the maximum days continuous orders last for the selected schedule, or null if not found.
	PSJW	Input	This is a pointer to the HOSPITAL LOCATION file (44). This is an optional variable that may be used to determine the administration times or shifts by location.
	PSJNE	Input	If this optional variable is defined, there is no dialogue with the user.
			Validates a schedule and gives the administration times or shifts and frequency (in minutes) of the schedule.
COMPONENT:	ENATV		
VARIABLES:	X	Both	This contains the administration times to be validated. X will be killed if the administration times are invalid.
			Validates administration times. This may be used in an input transform.
COMPONENT:	ENSHV		
VARIABLES:	X	Both	This should be set to the administration shift to be validated. If the administration shift passed in X is invalid, X will be killed.
			Validates shifts. If the shift passed in X is invalid X will be killed.
COMPONENT:	ENSPU		
VARIABLES:	PSJSCH	Input	This is the schedule to be processed.
	PSJM	Input	This is the frequency (in minutes) that an action is to take place. Used for continuous and range schedules.

8-22".

PSJAT	Input	This is either a set of administration times or shifts, depending on the type of schedule. If it is administration times, it will be similar to: PSJAT="04-08-12-16-20". If it is shifts, it will be similar to: PSJAT="M-E",PSJAT("M")="05-11",PSJAT("E")="1
PSJTS	Input	This is a code representing the type of schedule defined in PSJSCH. The codes are: C - CONTINUE; D - DAY OF THE WEEK; DR - DAY OF THE WEEK-RANGE; O - ONE-TIME; R - RANGE; and S - SHIFT.
PSJSD	Input	This is the start date/time of the order.
PSJFD	Input	This is the stop date/time of the period where the action is to take place.
PSJOSD	Input	This is the start date/time of the order. If PSJOSD is not found, PSJSD is used.
PSJOFD	Input	This is the stop date/time of the order (action to take place). If PSJOFD is not found, PSJFD is used.
PSJC	Output	This is the number of times (and when) an action is to take place.
		Calculates the number of times (and when) an action is to take place.
COMPONENT: ENDS		
VARIABLES: PSJSCH	Input	This is the name of the schedule to be used in determining the start date/time.
PSJAT	Input	This is either a set of administration times or shifts, depending on the type of schedule. If it is administration times, it will be similar to: PSJAT="04-08-12-16-20". If it is shifts, it will be similar to: PSJAT="M-E",PSJAT("M")="05-11",PSJAT("E")="1
8-22".		
PSJTS	Input	This is a code representing the type of schedule defined in PSJSCH. The codes are: C - CONTINUE; D - DAY OF THE WEEK; DR - DAY OF THE WEEK-RANGE; O - ONE-TIME; R - RANGE; and S - SHIFT.
PSJX	Output	This will be returned as either a date/time in VA FileMan internal format, or null if the start date/time cannot be calculated. Provides a date/time that might be used as a default value for the start date of an order.

1181 NAME: DGPM MOVEMENT EVENT
 CUSTODIAL PACKAGE: REGISTRATION Albany
 SUBSCRIBING PACKAGE: CONTROLLED SUBSTAN Birmingham
 The subscribing protocol is: PSD PAT ADT
 SCHEDULING Albany
 The subscribing protocol is: SD APPT STATUS
 ORDER ENTRY/RESULT Salt Lake City
 The subscribing protocols are: ORU AUTOLIST, ORU
 PATIENT MOVMT
 INTEGRATED BILLING Albany
 The subscribing protocol is: IB CATEGORY C BILLING
 MENTAL HEALTH Dallas
 The subscribing protocol is: YS PATIENT MOVEMENT
 DIETETICS Chicago

External Relations

```

    The subscribing protocol is: FHWMAS
ADVERSE REACTION T      Chicago
    The subscribing protocol is: GMRADGPM MARK CHART
GEN. MED. REC. - V      Chicago
    The subscribing protocol is: GMRVOR DGPM
HINQ                    Albany
    The subscribing protocol is: DVB ADMISSION HINQ
INPATIENT MEDICATI      Birmingham
    The subscribing protocol is: PSJ OR PAT ADT
VISIT TRACKING          Albany
    The subscribing protocol is: VSIT PATIENT STATUS
    USAGE: Controlled Subscri APPROVED: APPROVED
    STATUS: Active           EXPIRES:
    DURATION: Till Otherwise Agr VERSION:
    FILE:                   ROOT:
    DESCRIPTION:            TYPE: Other
This is the event invoked by the registration, discharge, or transfer of a
patient. Actions from any application area that are dependent on this
event may be added to this event upon approval of the DBIC.
```

Please note: If a package has an installation which affects one of the protocols on DGPM MOVEMENT EVENTS, we strongly urge you to disable the following options during installation:

Admit a Patient	DG ADMIT PATIENT
Transfer a Patient	DG TRANSFER PATIENT
Treating Specialty Transfer	DG TREATING TRANSFER
Check-in Lodger	DGPM CHECK-IN
Lodger Check-out	DGPM CHECK-OUT
Discharge a Patient	DG DISCHARGE PATIENT
Disposition and Application	DG DISPOSITION APPLICATION
Extended Bed Control	DG BED CONTROL EXTENDED
Load/Edit PTF Data	DG PTF SCREEN
Quick Load/Edit PTF Data	DG PTF QUICK LOAD
Enter/Edit an IRT	DGJ IRT ENTER/EDIT

```

1377      NAME: WARD LOCATION
CUSTODIAL PACKAGE: REGISTRATION      Albany
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT Chicago
    USAGE: Private           APPROVED: APPROVED
    STATUS: Active           EXPIRES:
    DURATION: Till Otherwise Agr VERSION:
    FILE: 42                ROOT: DIC(42,
    DESCRIPTION:            TYPE: File
Nursing and Vitals/Measurments can access the Ward Location (42) file
fields/cross-references as described in this DBIA.
^DIC(42,D0,
.03      SERVICE           0;3      Direct Global Read
    Direct global access on the "B" cross-reference of the Ward Location
    (42) file is supported by this DBIA.
```

ROUTINE:

```

1378      NAME: DGPM
CUSTODIAL PACKAGE: REGISTRATION      Albany
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT Chicago
    USAGE: Private           APPROVED: APPROVED
    STATUS: Active           EXPIRES:
    DURATION: Till Otherwise Agr VERSION:
    FILE: 405                ROOT: DGPM(
    DESCRIPTION:            TYPE: File
Nursing directly references the ^DGPM global. We would like permission to
reference the following fields/cross-references using direct global reads:
.01 DATE/TIME
.02 TRANSACTION
.03 PATIENT
.06 WARD LOCATION
.14 ADMISSION/CHECK-IN MOVEMENT
"AMV3" cross-reference
"APMV" cross-reference
```

```

"ATID1" cross-reference
"ATID2" cross-reference
"ATID3" cross-reference
"CN" cross reference
^DGPM(D0,0)
.01      DATE/TIME              0;1      Direct Global Read
.02      TRANSACTION            0;2      Direct Global Read
.03      PATIENT                0;3      Direct Global Read
.06      WARD LOCATION          0;6      Direct Global Read
.14      ADMISSION/CHECK-IN M 0;14      Direct Global Read
^DGPM('AMV3',
      Direct global read to the "AMV3" cross-reference.
^DGPM('APMV',
      Direct global read to the "APMV" cross-reference.
^DGPM('ATID1',
      Direct global read to the "ATID1" cross-reference.
^DGPM('ATID2',
      Direct global read to the "ATID2" cross-reference.
^DGPM('ATID3',
      Direct global read to the "ATID3" cross-reference.
^DGPM('CN',
      Direct global read to the "CN" cross-reference.

```

ROUTINE:

```

1380      NAME: ROOM-BED
CUSTODIAL PACKAGE: REGISTRATION          Albany
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT  Chicago
      USAGE: Controlled Subscri APPROVED: APPROVED
      STATUS: Active                   EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE: 405.4                     ROOT: DG(405.4,
      DESCRIPTION:                     TYPE: File
Nursing, Vitals/Measurements and Intake/Output have permission to access
the following elements in the Room-Bed (405.4) file.

```

```

^DG(405.4,0) to test for existence of file.
"W" cross-reference
Direct global read of the NAME (.01) field.
^DG(405.4,0)
      Direct global reference of this node to check for existence of
      Room-Bed (405.4) file.
^DG(405.4,D0,0)
.01      NAME                      0;1      Direct Global Read
^DG(405.4,'W',
      Direct global read on the "W" cross-reference.

```

ROUTINE:

```

1391      NAME: GMRY NUR SHIFT/OTHER
CUSTODIAL PACKAGE: INTAKE/OUTPUT          Chicago
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT  Chicago
      USAGE: Private                   APPROVED: APPROVED
      STATUS: Active                   EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE: 126.95                   ROOT: GMRD(126.95,
      DESCRIPTION:                     TYPE: File
Nursing and Vitals/Measurements have permission to access the GMRY NUR
Shift/Other file fields described in this DBIA.

```

```

^GMRD(126.95,D0,
1      NIGHT                      1;1      Direct Global Read
2      DAY                        1;2      Direct Global Read
3      EVENING                    1;3      Direct Global Read

```

ROUTINE:

```

1392      NAME: GMRY INPUT TYPE
CUSTODIAL PACKAGE: INTAKE/OUTPUT          Chicago
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT  Chicago

```

External Relations

```

        USAGE: Private                APPROVED: APPROVED
        STATUS: Active                EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE: 126.56                 ROOT: GMRD(126.56,
        DESCRIPTION:                 TYPE: File
Vitals/Measurments has permission to access the GMRY Input Type file as
described in this DBIA.
^GMRD(126.56,D0,
.01      NAME                        0;1      Direct Global Read
Direct global read of the "C" cross-reference of the GMRY Input Type
file is also supported.

ROUTINE:

*****

1393      NAME: GMRY OUTPUT TYPE
CUSTODIAL PACKAGE: INTAKE/OUTPUT                Chicago
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
        USAGE: Private                APPROVED: APPROVED
        STATUS: Active                EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE: 126.58                 ROOT: GMRD(126.58,
        DESCRIPTION:                 TYPE: File
Vitals/Measurements has permission to access the GMRY Output Type (126.58)
file as described in this DBIA.
^GMRD(126.58,D0,
.01      OUTPUT TYPE                0;1      Direct Global Read
Direct global read of the "C" cross-reference of the GMRY Output Type
file is also supported.

ROUTINE:

*****

1405      NAME: ORDER
CUSTODIAL PACKAGE: ORDER ENTRY/RESULT                Salt Lake City
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT        Chicago
        USAGE: Private                APPROVED: APPROVED
        STATUS: Active                EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE: 100                   ROOT: OR(100,
        DESCRIPTION:                 TYPE: File
Vitals/Measurements has permission to access the Order (100) file as
described in this DBIA. This agreement shall be only valid for V2.5 of
the Order Entry package.
^OR(100,'AO',
Direct global read is allowed on the "AO" cross-reference of the
Order (100) file.

ROUTINE:

*****

1412      NAME: DD GLOBAL
CUSTODIAL PACKAGE: VA FILEMAN                San Francisco
SUBSCRIBING PACKAGE: NURSING SERVICE        Chicago
        TEXT GENERATOR                Chicago
        VITALS/MEASUREMENT            Chicago
        USAGE: Controlled Subscri APPROVED: APPROVED
        STATUS: Active                EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE: 0                     ROOT: DD(
        DESCRIPTION:                 TYPE: File
The Nursing, Vitals/Measurements, and Text Generator packages have been
granted permission to access the DD global as defined in this DBIA.
GLOBAL REFERENCE:
^DD(124.2,0,'DIK')
Nursing and Text Generator have permission to kill this node to
uncompile cross-references on the Aggregate Term (124.2) file.
GLOBAL REFERENCE:
^DD(file,field,
.01      LABEL                        0;1      Direct Global Read
Nursing can direct global read the name of a field, and direct global
read to loop through the ^DD global to get all of the fields for a
```

particular Nursing file. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.

3 POINTER 0;3 Direct Global Read
Nursing can access this field to decode a set of codes to its external format. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.

5 INPUT TRANSFORM 0;5,99 Direct Global Read
Nursing can execute the input transform directly for its files/fields. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.

3 'HELP'-PROMPT 3;E1,245 Direct Global Read
Nursing can read the 'Help'-Prompt field for its files/fields. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.

4 XECUTABLE 'HELP' 4;E1,245 Direct Global Read
Nursing can read the Xecutable 'Help' for its files/fields. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.

8 READ ACCESS (OPTIONAL 8;E1,245 Direct Global Write
The Text Generator and Vitals/Measurements can write the Read Access (Optional) for its files/fields. file is in the appropriate package numberspace as assigned by the DBA, and field is a valid field number for file.

9 WRITE ACCESS (OPTIONAL 9;E1,245 Direct Global Write
The Text Generator and Vitals/Measurements can write the Write Access (Optional) for its files/fields. file is in the appropriate numberspace as assigned by the DBA, and field is a valid field number of file.

21 DESCRIPTION 21;0 Direct Global Read
Nursing is allowed direct global read access to the Descriptions for fields to print them out. Also included here are the direct global read references to the ^DD(file,field,21, subtree that would be necessary to read this WP field. file is a valid number in the Nursing numberspace as assigned by the DBA, and field is a valid field number for file.

GLOBAL REFERENCE:
^DD(file,field,1,xref_ien,
1 SET STATEMENT 1;E1,245 Direct Global Read
Nursing and the Text Generator are allowed to directly read the Cross-reference Set Statements for their package so they can be executed. file is a valid number in the appropriate number space as assigned by the DBA, field is a valid field number of file, and xref_ien is the cross-reference ien being used.

2 KILL STATEMENT 2;E1,245 Direct Global Read
Nursing and the Text Generator are allowed to directly read the Cross-reference Kill Statements for their package so they can be executed. file is a valid number in the appropriate number space as assigned by the DBA, field is a valid field number of file, and xref_ien is the cross-reference ien being used.

Nursing and the Text Generator are allowed direct global read access to ^DD(file,field,1,xref_ien) in order to loop through the cross-reference multiple for their files, where file is in the package numberspace assigned by the DBA, field is a valid field in file, and xref_ien is the ien of the cross-reference for field in file.

GLOBAL REFERENCE:
^DD(file,'SB',
Nursing can direct global read the ^DD(file,"SB") cross-reference to determine the sub-files for a particular file/sub-file. file is a valid number in the Nursing numberspace as assigned by the DBA.

GLOBAL REFERENCE:
^DD(124.21,0,'DIK')
Vitals, Nursing & Text Generator have permission to kill off this node.

GLOBAL REFERENCE:
^DD(124.2,0,'DIKOLD')
Vitals, Nursing & Text Generator have permission to kill off this node.

GLOBAL REFERENCE:
^DD(2,0,'IX','ANURS',2,.1)
Nursing has permission to direct global kill/write this node when setting up the "ANURS" cross-reference in the Patient file. MAS has already approved this, see MailMessage #18109934.

GLOBAL REFERENCE:
^DD(2,.1,1,
Nursing can direct global write the following nodes:
^DD(2,.1,1,xref_ien,0)="2^ANURS^MUMPS", ^DD(2,.1,1,xref_ien,1)="S

External Relations

```
%X=X,X="NURSCPL" X ^%ZOSF("TEST") S X=%X D:$T EN1^NURSCPL",
^DD(2,.1,1,xref_ien,2)="S %X=X,X="NURSCPL" X ^%ZOSF("TEST") S X=%X
D:$T EN2^NURSCPL". xref_ien is the next available cross-reference ien
for field .1. A direct global read is allowed on ^DD(2,.1,1,xref_ien)
to loop through the xrefs of field .1. Nursing can direct global kill
the ANURS cross-reference via a direct global kill of the
^DD(2,.1,1,xref_ien) node. xref_ien is ien of the ANURS xref (where
$P(^DD(2,.1,xref_ien,0),"^",2)="ANURS"). MAS has already approved this
use of their file, ref. msg #18109934.
```

```
1427      NAME: PHARMACY SYSTEM
CUSTODIAL PACKAGE: PHARMACY                      Birmingham
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT          Chicago
                USAGE: Private                    APPROVED: APPROVED
                STATUS: Active                     EXPIRES:
                DURATION: Till Otherwise Agr       VERSION:
                FILE: 59.7                         ROOT: PS(59.7,
                DESCRIPTION:                       TYPE: File
Vitals/Measurements can access the Pharmacy Sytsem (59.7) file as
described in this DBIA.
^PS(59.7,D0,
20.1      VERSION NUMBER LAST 20;1      Direct Global Read
```

ROUTINE:

```
1430      NAME: GMRYRP1
CUSTODIAL PACKAGE: INTAKE/OUTPUT                  Chicago
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT          Chicago
                USAGE: Private                    APPROVED: APPROVED
                STATUS: Active                     EXPIRES:
                DURATION: Till Otherwise Agr       VERSION:
                FILE:                             ROOT:
                DESCRIPTION:                       TYPE: Routine
Nursing has permission to access the NEXT entry point for the GMRYRP1
routine. Vitals/Measurements is allowed to use the entry STARTD for the
GMRYRP1 routine.

ROUTINE: GMRYRP1
COMPONENT: NEXT
VARIABLES: GMRFIN      Input      Date/time the current nursing shift ends.
                GLASTDT   Output      Date the day before the date stored in
                GDTSTRT   Output      GMRFIN.
                GNXTDT    Output      Date the nursing shift starts.
                GMRNIT     Output      Date the day after the date stored in
                GDTFIN     Output      GDTSTRT.
                GDTFIN     Output      Time the nursing night shift starts.
                GDTFIN     Output      Date the nursing shift ends.
                This entry point is called to initialize variables required
                for the SETSIFT^GMRYRP2 call.
COMPONENT: STARTD
VARIABLES: DFN          Input      Patient IEN.
                GMRSTRT   Both      Input: Start date of information extract.
                GMRSTRT   Both      Output: Start date_night shift start
                GMRFIN     Both      hour.
                GMRFIN     Both      Input: End date of information extract.
                GMRFIN     Both      Output: End date_evening shift end hour.
                GMROUT     Both      Passed in with a value of 0. Returned a
                GRPT        Input      value of 1 if exited abnormally.
                GRPT        Input      Set to 5 to indicate that the data are
                GRPT        Input      requested the V/M Graphic Reports.
```


GMRNIT Input Nursing night shift start hour defined in the GMRY NUR Shift/Other file (126.95).

GMRDAY Input Nursing day shift start hour defined in the GMRY NUR Shift/Other file (126.95).

GMREVE Input Nursing evening shift start hour defined in the GMRY NUR Shift/Other file (126.95).

This entry is called to set up the start date/time and end date/time of information extract according to the nursing shift starting hours defined in the GMRY NUR Shift/Other file (126.95).

1432 NAME: GMRYUT0
 CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
 SUBSCRIBING PACKAGE: VITALS/MEASUREMENT Chicago
 USAGE: Private APPROVED: APPROVED
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 Vitals/Measurements can access the GMTRYUT0 routine as described in this DBIA.

ROUTINE: GMRYUT0
 COMPONENT: PT
 VARIABLES: DFN Input Patient IEN.

GMRAGE Output Age of patient.

GMRBED Output Room-bed for patient.

GMRSEX Output Patient sex.

GMRVADM Output Patient admission date.

GMRWARD Output Pointer to Ward Location (42) file denoting patient's location.

GMRWARD(1) Output Free text of patient's location.

This entry is used to call 1^VADPT to set up VAIN and VADM local variables.

1434 NAME: GMRYUT9
 CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
 SUBSCRIBING PACKAGE: VITALS/MEASUREMENT Chicago
 USAGE: Private APPROVED: APPROVED
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 Vitals/Measurements can access the GMRYUT9 routine as described in this DBIA.

ROUTINE: GMRYUT9
 COMPONENT: PATIENT
 VARIABLES: DFN Input Patient IEN.

GMRNUR Input This is set to 1 to indicate return data from Nurs Patient file.

SSN Output Patient SSN.

GMRAGE Output Patient's age.

GMRSEX Output Patient's sex.

GMRBED Output

External Relations

GMRVADM	Output	Patient's room-bed.
GMRWARD	Output	Patient admission date/time.
GMRWARD(1)	Output	Pointer to Ward Location (42) file denoting patient's location.
		Free text version of patient location.
		This entry point extracts information from Nurs Patient (214) file.

1435	NAME: GMRYRP2	
CUSTODIAL PACKAGE:	INTAKE/OUTPUT	Chicago
SUBSCRIBING PACKAGE:	VITALS/MEASUREMENT	Chicago
USAGE:	Private	APPROVED: APPROVED
STATUS:	Active	EXPIRES:
DURATION:	Till Otherwise Agr	VERSION:
FILE:		ROOT:
DESCRIPTION:		TYPE: Routine
Nursing and Vitals/Measurements can access the following entry points in the GMRYRP2 routine.		
ROUTINE: GMRYRP2		
COMPONENT: SAVE		
VARIABLES:	DA(1)	Input
		Pointer to the GMRY Patient I/O file (126).
II	Input	Passed in with a value of "IN" or "OUT" subscript of the GMRY Patient I/O file (126).
GMRSTRT	Input	Date/time the current nursing shift starts.
GMRFIN	Input	Date/time the current nursing shift ends.
TMP	Output	^TMP(\$J,"GMRY") global contains intake and output information for a selected patient.
		This entry call extracts the intake and output information and stores the data in ^TMP(\$J,"GMRY") for a selected patient.
COMPONENT:	SAVEIV	
VARIABLES:	DA(1)	Input
		Pointer to the Patient I/O file (126).
GMRSTRT	Input	Date/time the current nursing shift starts.
GMRFIN	Input	Date/time the current nursing shift ends.
TMP	Output	^TMP(\$J,"GMRY") global contains the patient intravenous infusion information.
		This entry call extracts patient intravenous infusion information and stores the data in ^TMP(\$J,"GMRY") global.
COMPONENT:	SETSIFT	
VARIABLES:	GMRINDT	Input
		Date/time the I/O data was entered.
GDTSTRT	Input	Date the nursing shift starts.
GDTFIN	Input	Date the nursing shift ends.
GLASTDT	Input	Date the day before the current nursing shift ends.
GSHIFT	Output	Value = "SH-1" night shift, = "SH-2" day shift, = "SH-3" evening shift.
		This entry is called to assign the nursing shift (night, day or evening) according to the date/time the I/O data was entered.

COMPONENT: GMRYRP2
 VARIABLES: DFN Input Patient IEN.
 GMRSTRT Input Start date for the information extract.
 GMRFIN Input End date for the information extract.
 This routine is called by the Vitals/Measurements to
 extract patient intake and output information entered
 within a selected date range.

1436 NAME: GMRYRP3
 CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
 SUBSCRIBING PACKAGE: VITALS/MEASUREMENT Chicago
 USAGE: Private APPROVED: APPROVED
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 Nursing and Vitals/Measurements can access the following entry point in
 the routine GMRYRP3.

ROUTINE: GMRYRP3
 COMPONENT: REPORT1
 VARIABLES: GRPT Input Type of intake/output report. Set GRPT =
 10 for the Nursing End of Shift Report.
 Set GRPT = 5 for the V/M Graphic Reports.
 GQ Input Passed in with a value of 0, required by
 the GMRYRP3 routine.
 GQT Input Passed in with a value of 0, required by
 the GMRYRP3 routine.
 GMROUT Both This variable indicates whether the user
 abnormally exited the process. It is
 passed in with a value of 0.
 TMP Both ^TMP(\$J,"GMR") contains the intake,
 output and intravenous infusion data for
 a patient. If the data is requested by
 the Vitals/Measurements, ^TMP(\$J,"GMR")
 is also used to store the aggregated
 information.
 GTOTLI Output Intake grand total.
 GTOTLO Output Output grand total.
 GN(1) Output Number of intake types listed in the GMR
 Input Type file (126.56).
 GN(2) Output Number of output types listed in the GMR
 Output Type file (126.58).
 GIN Output Intake nursing shift total.
 GOUT Output Output nursing shift total.
 GTOTIN Output Intake day total.
 GTOTOUT Output Output day total.
 The Nursing End of Shift Report calls this entry point to
 aggregate the data obtained from the execution of
 SAVE^GMRYRP2 and ^GMRYRP2. The V/M Graphic Reports call
 this entry point to aggregate data obtained from the
 execution of STARTD^GMRYRP1, PT^GMRYUT0 and ^GMRYRP2.

1957 NAME: File Security Codes
 CUSTODIAL PACKAGE: VA FILEMAN San Francisco

External Relations

```
SUBSCRIBING PACKAGE: NURSING SERVICE           Chicago
                     GMRY GEN. MED. REC         Chicago
                     GEN. MED. REC. - V         Chicago
                     TEXT GENERATOR             Chicago
                     USAGE: Private             APPROVED: APPROVED
                     STATUS: Active              EXPIRES:
                     DURATION: Till Otherwise Agr VERSION:
                     FILE: 1                     ROOT: DIC
                     DESCRIPTION:                TYPE: File
The Gen. Med. Rec. - I/O (Intake and Output), Gen. Med. Red. - Vitals
(Vitals/Measurements), Nursing Service and Text Generator packages have
permission to set the security nodes (i.e., "DD", "RD", "DEL", "LAYGO",
and "WR") in FILE 1 for those files within the package's number range.
For example: S ^DIC(210,0,"DD")="@"
```

Package	Number Range
-----	-----
Intake & Output	126-126.95
Vitals/Measurements	120.5-120.57
Nursing Service	210-219.7
Text Generator	124-124.3

With the next release of each package, the installation process will allow the site to change its file security codes to match the codes as they appear in the documentation. The site can answer YES to change their file security codes to match the package documentation or NO to leave them as is.

DBIA's where the Vitals/Measurements package is the custodian:

```
78      NAME: DBIA78
CUSTODIAL PACKAGE: GEN. MED. REC. - V           Chicago
SUBSCRIBING PACKAGE: HEALTH SUMMARY             Salt Lake City
                     USAGE: Private              APPROVED: APPROVED
                     STATUS: Active               EXPIRES:
                     DURATION: Till Otherwise Agr VERSION:
                     FILE:                        ROOT:
                     DESCRIPTION:                 TYPE: Other
The Vitals Package developers have granted the Health Summary team
permission to add the application group "GMTS" to ^DIC(120.51, when file
120.51, the Vital Type file, exists.
```

```
1120     NAME: GMRVUTL
CUSTODIAL PACKAGE: GEN. MED. REC. - V           Chicago
SUBSCRIBING PACKAGE:
                     USAGE: Supported            APPROVED: APPROVED
                     STATUS: Active              EXPIRES:
                     DURATION:                  VERSION:
                     DESCRIPTION:               TYPE: Routine
User can extract the latest record for a desired vital type from the
Vital/Measurement database for a particular patient by calling
EN6^GMRVUTL.
```

Input Variables:

DFN = The internal entry number in the Patient file (#2) for the patient data that is to be retrieved.

GMRVSTR = The abbreviation of the vital/measurement desired from the Vital Type file (#120.51). For example:

```
S GMRVSTR="T",DFN=5 D EN6^GMRVUTL
```

"T" is the abbreviation of temperature. GMRVSTR will be killed.

Output Variable:

X is set to the entire zeroth node for the entry in question in the Vital/Measurement file (#120.5), for example, ^GMR(120.5,IEN,0), where IEN is the subscript in the file that contains the data. The following shows the format of value contained in X.

X=2920728.06^5^2^2920728.13482^42^2098^6^101.1

```
ROUTINE: GMRVUTL
COMPONENT: EN6
VARIABLES: DFN          Input          The internal entry number in the Patient
                                         file (#2).
          GMRVSTR        Input          The abbreviation of the vital/measurement
                                         desired from the Vital Type file
                                         (#120.51).
          X              Output         The entire zeroth node for the entry in
                                         question in the Vital/Measurement file
                                         (#120.5).
User can extract the latest record for a desired vital type
from the Vital/ Measurement database for a particular
patient.
```

```
1381      NAME: GMRV VITAL MEASUREMENT
CUSTODIAL PACKAGE: VITALS/MEASUREMENT          Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE            Chicago
          USAGE: Private                        APPROVED: APPROVED
          STATUS: Active                        EXPIRES:
          DURATION: Till Otherwise Agr  VERSION:
          FILE: 120.5                          ROOT: GMR(120.5,
          DESCRIPTION:                          TYPE: File
Nursing has permission to access the following fields in the GMRV Vital
Measurement (120.5) file.
^GMR(120.5,D0,0)
  .01      DATE/TIME VITALS TAK 0;1          Direct Global Read
  2.1      RATE                                0;8          Direct Global Read
^GMR(120.5,D0,2)
  2        ENTERED IN ERROR          2;1          Direct Global Read
^GMR(120.5,'AA',
  Direct global read on the "AA" cross-reference.
```

ROUTINE:

```
1382      NAME: GMRV VITAL TYPE
CUSTODIAL PACKAGE: VITALS/MEASUREMENT          Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE            Chicago
          USAGE: Private                        APPROVED: APPROVED
          STATUS: Active                        EXPIRES:
          DURATION: Till Otherwise Agr  VERSION:
          FILE: 120.51                      ROOT: GMRD(120.51,
          DESCRIPTION:                          TYPE: File
Nursing has permission to access the GMRV Vital Type (120.51) file.
^GMRD(120.51,D0,0)
  .01      NAME                                0;1          Direct Global Read
^GMRD(120.51,'C',
  Direct global read on the "C" cross-reference.
```

ROUTINE:

```
1431      NAME: GMRVDS0
CUSTODIAL PACKAGE: VITALS/MEASUREMENT          Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE            Chicago
          USAGE: Private                        APPROVED: APPROVED
          STATUS: Active                        EXPIRES:
          DURATION: Till Otherwise Agr  VERSION:
          FILE:                                ROOT:
          DESCRIPTION:                          TYPE: Routine
Nursing can access the GMRVDS0 routine as described in this DBIA.
```

```
ROUTINE: GMRVDS0
COMPONENT: EN2
VARIABLES: This entry point allows user to print latest vital signs
```

External Relations

for a patient if the patient IEN is unknown.

1439 NAME: GMRVDS1
CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry point in the GMRVDS1 routine as described in this DBIA.

ROUTINE: GMRVDS1
COMPONENT: EN3
VARIABLES: DFN Input Patient IEN.
TMP Input ^TMP(\$J,patient room-bed,patient name,DFN) global contains the patients for the report.
GMRVWLO Input Free text version of Nursing ward location.
This entry point allows user to print the latest vital signs by a Nursing location.

1440 NAME: GMRVED0
CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry points described in this DBIA for the GMRVED0 routine.

ROUTINE: GMRVED0
COMPONENT: EN3
VARIABLES: DFN Input Patient IEN.
GMROUT Both This variable indicates whether the user abnormally exited the input process. It is passed in with a value of 0.
GNUROP Input This variable is passed in with a value of 1 to indicates that the edit process is requested by the Nursing Service.
GMRVIDT Input The date/time the vitals/measurements were taken.
GMRVHLOC Input Hospital Location file (44) pointer.
GMRENTY Input The type of vitals/measurements to edit.
GMRSTR Input The string of which vitals/measurements to edit, for example, "T;P;R;BP;WT;".
This entry point allows user to enter vitals/measurements for a patient.
COMPONENT: Q
VARIABLES: This entry point is called to clean up the variables used by the GMRVED0.

1441 NAME: GMRVEE0
CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago

```

        USAGE: Private          APPROVED: APPROVED
        STATUS: Active          EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE:                   ROOT:
        DESCRIPTION:            TYPE: Routine
Nursing can access the following entry point described in this DBIA for
the GMRVEE0 routine.

```

```

ROUTINE: GMRVEE0
COMPONENT: EN2
VARIABLES: DFN          Input
                  Patient IEN.
This entry point allows user to edit a vital/measurement
entered in error.

```

```

1442      NAME: GMRVER0
CUSTODIAL PACKAGE: VITALS/MEASUREMENT          Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE            Chicago
        USAGE: Private          APPROVED: APPROVED
        STATUS: Active          EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE:                   ROOT:
        DESCRIPTION:            TYPE: Routine
Nursing can access the following entry point described in this DBIA for
the GMRVER0 routine.

```

```

ROUTINE: GMRVER0
COMPONENT: EN1
VARIABLES: This entry point allows user to print vitals/measurements
            entered in error for a patient.

```

```

1443      NAME: GMRVSAS0
CUSTODIAL PACKAGE: VITALS/MEASUREMENT          Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE            Chicago
        USAGE: Private          APPROVED: APPROVED
        STATUS: Active          EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE:                   ROOT:
        DESCRIPTION:            TYPE: Routine
Nursing can access the following entry point described in this DBIA for
the GMRVSAS0 routine.

```

```

ROUTINE: GMRVSAS0
COMPONENT: EN1
VARIABLES: GMRVX          Input
                  This variable is passed in with a value
                  of "T", "P", "R", "B" or "BP" as vital
                  type code.
        GMRVX(0)          Input
                  This variable contains vital data for the
                  screening.
        GMRVX(1)          Output
                  If the output value equals 0 - vital data
                  within normal range. If the output value
                  equals 1 - abnormal value defined in the
                  GMRV Vitals Parameters file (125.57).
This entry point is called for checking the abnormal
vital/measurement.

```

```

1444      NAME: GMRVSC0
CUSTODIAL PACKAGE: VITALS/MEASUREMENT          Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE            Chicago
        USAGE: Private          APPROVED: APPROVED
        STATUS: Active          EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE:                   ROOT:
        DESCRIPTION:            TYPE: Routine
Nursing can access the following entry points described in this DBIA for
the GMRVSC0 routine.

```

External Relations

ROUTINE: GMRVSCO
COMPONENT: DATE
VARIABLES: GMROUT Both
This variable indicates whether the user abnormally exited the call. It is passed in with a value of 0.
GMRVSDT Output
Start date/time of the date range.
GMRVFDT Output
End date/time of the date range.
This entry point allows user to define start date/time and end date/time for a date range.
COMPONENT: EN5
VARIABLES: DFN Input
Patient IEN.
GMRX Input
Patient admission date/time.
GMROUT Both
This variable indicates whether the user abnormally exited the report process. It is passed in with a value of 0.
GMRVSDT Input
Start date/time of the date range.
GMRVFDT Input
End date/time of the date range.
GMRPG Input
This report page count is initialized with a value of 0.
This entry point allows user to print cumulative vitals/measurements for a patient over a given date range.

1445 NAME: GMRVSR0
CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry points described in this DBIA for the GMRVSR0 routine.

ROUTINE: GMRVSR0
COMPONENT: EN5
VARIABLES: DFN Input
Patient IEN.
GFLAG Input
This variable is passed in with a value of 0 to indicate that the report is requested by the Nursing Service.
GMRDATE Input
This variable is passed in with a value of "start date/time^end date/time^type of graph".
GMRVWLO Input
Nursing location free text.
User can use this entry point to print V/M Graphic Reports, Vital Signs Record, B/P Plotting Chart or Weight Chart.
COMPONENT: Q2
VARIABLES: This entry point is called to clean up the variables used for the graphic reports.

1446 NAME: GMRVUT0
CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
HEALTH SUMMARY Salt Lake City
ORDER ENTRY/RESULT Salt Lake City
USAGE: Controlled Subscri APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:


```

      FILE:
      DESCRIPTION:
This routine will return vital/measurement for a patient over a given
date/time range.

      ROUTINE: GMRVUTO
      COMPONENT: EN1
      VARIABLES: DFN          Input
                  GMRVSTR      Input
                  GMRVSTR(0)   Input
                  UTILITY       Output

      Patient IEN.

      Types of vitals/measurements desired.
      Use the abbreviations found in the GMRV
      Vital Type file (120.51). For multiple
      vitals, use the ; as a delimiter, for
      example, "T;P;R;BP;".

      This variable specifies which
      vital/measurement data will be returned.
      The variable has four pieces, A^B^C^D,
      where:

      A=Start date/time (FM format) of
      vital/measurement data to be returned.
      B=End date/time (FM format) of
      vital/measurement data to be returned.
      C=Number of occurrences (numeric) of
      vital/measurement data to be returned.
      D=Parameter to govern sort order of
      return array. The value of this
      piece can either be 0 or 1. If it is
      0, the return data will be sorted
      by type, then by date/time entered.
      If it is 1, the return data will
      be sorted by date/time entered, then
      by type. See output variable
      ^UTILITY for more information.

      The output array is ^UTILITY($J,"GMRVD").
      The subscripts of this array are governed
      by the 4th piece of the input variable
      GMRVSTR(0).
      If $P(GMRVSTR(0),"^",4) is true, the
      return array will be:
      ^UTILITY($J,"GMRVD",RDT,TYP,IEN)=DATA
      If $P(GMRVSTR(0),"^",4) is false, the
      return array will be:
      ^UTILITY($J,"GMRVD",TYP,RDT,IEN)=DATA
      In the above, the following abbreviations
      translate as follows:
      RDT = Reverse date/time
      vital/measurement was taken in format
      9999999-(Date/time taken).
      TYP = Abbreviation of
      vital/measurement type from GMRVSTR
      variable.
      IEN = Entry in GMRV Vital/Measurement
      (120.5) file of this data.
      DATA = Data about this
      vital/measurement with the following
      format,

      VDT^DFN^ITYP^EDT^LOC^USER^ISITE^RATE^IQUAL^S
      ITE^QUAL^ABN^UNIT,

      where:
      VDT = Date/time
      vital/measurement taken (FM format)
      DFN = IEN for patient in
      Patient file.
      ITYP = IEN for vital type in
      GMRV Vital Type file.
      EDT = Date/time
      vital/measurement entered (FM format)
      LOC = IEN for patient location

```

External Relations

in Hospital Location file.
USER = User who entered data;
IEN in New Person file.
ISITE = IEN for site in GMRV
Vital Site file.
RATE = Rate for this
vital/measurement (alphanumeric).
IQUAL = IEN for quality in GMRV
Vital Quality file.
SITE = Site of
vital/measurement (free text).
QUAL = Quality of
vital/measurement (free text).
ABN = Flag indicating whether
vital/measurement is abnormal.
* indicates abnormal,
null indicates normal.
UNIT = Units of measurement for
rate when appropriate, e.g.
Centigrade for
temperature, Kg for weight and centimeter
for height.

GMRVSTR('L Input

This is an optional variable. It will be
set to an ^ delimited list of Hospital
Location Types, see Type (2) field of
Hospital Location (44) file for a list of
types. The first piece and last piece of
the list must be null, i.e., ^C^M^.

User can use this entry to gather patient vital/measurement
data.

1447 NAME: GMRVUT2
CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine

Nursing can access the following entry point described in this DBIA for
the GMRVUT2 routine.

ROUTINE: GMRVUT2
COMPONENT: SETU2
VARIABLES: DFN

Input

Patient IEN.

GMRVSTR Input

GMRVSTR(0) is passed in with a value of
"^^1^1". GMRVSTR("T") is passed in with
the abbreviation "WT" found in the GMRV
Vital Type file (120.51). GMRVSTR("IEN")
is passed in with a GMRV Vital
Measurement file (120.5) pointer.
GMRVSTR("R") is passed in with the
date/time the weight was measured.

UTILITY Output

The output array ^UTILITY(\$J,"GMRD")
contains the desired patient weight.

This entry is used to extract the last weight measurement
for a patient.

1448 NAME: GMRVVS0
CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine

Nursing can access the following entry points described in this DBIA for

the GMRVVS0 routine.

```

ROUTINE: GMRVVS0
COMPONENT: EN1
VARIABLES: DFN          Input          Patient IEN.

          GFLAG          Input          This variable is passed in with a value
                                         of 0 to indicate that the report is
                                         requested by the Nursing Service.

          GMROUT          Both          This variable indicates whether the user
                                         abnormally exited the report process. It
                                         is passed in with a value of 0.

          GMRNUR          Input          This variable is set to a value of 0 to
                                         indicate that the proces is requested by
                                         the Nursing Service.

          GMRSTRT          Input          Start date/time for the report.

          GMRFIN          Input          End date/time for the report.
                                         This entry point is used to print the Expanded SF 511
                                         Report (Itemized I/O).

COMPONENT: DATE
VARIABLES: GMROUT          Both          This variable indicates whether the user
                                         abnormally exited the process. It is
                                         passed in with a value of 0.

          GMRSTRT          Output          Start date/time user entered.

          GMRFIN          Output          End date/time user entered.
                                         User can use this entry to set up start date/time and end
                                         date/time for the report desired.

COMPONENT: Q2
VARIABLES:                This entry point is called to clean up the variables used
                                         by the GMRVVS0 routine.

```

```

1589      NAME: GMRVPCE0
CUSTODIAL PACKAGE: VITALS/MEASUREMENT          Chicago
SUBSCRIBING PACKAGE: AUTOMATED INFO COL          Albany
                                         Only are requesting use of RATECHK and HELP entry
                                         points.
          PCE PATIENT CARE E          Salt Lake City
                                         Only are requesting use of STORE and VALIDATE entry
                                         points.
          USAGE: Controlled Subscri APPROVED: APPROVED
          STATUS: Active          EXPIRES:
          DURATION: Till Otherwise Agr VERSION:
          FILE:          ROOT:
          DESCRIPTION:          TYPE: Routine
The GMRVPCE0 routine can be used to enter data into the
Vitals/Measurements package (using PCE Device Interface Specification),
validate measurement data (which uses PCE Device Interface Specification),
print help for a particular measurement, or validate a particular
measurement.

```

```

ROUTINE: GMRVPCE0
COMPONENT: VALIDATE(PXCA)
VARIABLES: PXCA          Both
                                         PXCA is the the array which contains
                                         measurement data to be validated. The
                                         array is defined in the PCE Device
                                         Interface Specification and must be
                                         passed by reference, i.e., .PXCA. The
                                         nodes in the array that are used are
                                         described below, but their definitions
                                         can be found in the PCE Device Interface
                                         Specification. PXCA("ENCOUNTER"),
                                         PXCA("VITALS") and PXCA("SOURCE") are
                                         used by VALIDATE and are input variables.
                                         PXCA("ERROR") or PXCA("WARNING") may be

```

External Relations

returned if data is invalid or duplicate.
 Validate measurement data which is in format described in
 PCE Device Interface Specification. Returns PXCA("ERROR")
 if data not valid.

COMPONENT: STORE(PXCA)
 VARIABLES: PXCA Both

PXCA is the the array which contains
 measurement data to be validated. The
 array is defined in the PCE Device
 Interface Specification and must be
 passed by reference, i.e., .PXCA. The
 nodes in the array that are used are
 described below, but their definitions
 can be found in the PCE Device Interface
 Specification. PXCA("ENCOUNTER"),
 PXCA("VITALS") and PXCA("SOURCE") are
 used by STORE and are input variables.
 PXCA("ERROR") or PXCA("WARNING") may be
 returned if data is invalid or duplicate.

This component will validate and store data in the
 Vitals/Measurements database which is in the format
 described in the PCE Device Interface Specification. It
 will return PXCA("ERROR") if there was a problem with the
 data.

COMPONENT: HELP(TYPE,HLPARRAY)
 VARIABLES: TYPE Input

Type of measurement. This is a required
 variable and is the abbreviation for the
 measurement type found in the PCE Device
 Interface Specification.

HLPARRAY Input

This is an optional variable describing
 location where the help will be found
 after the procedure call. This is a
 closed array reference, and if not
 specified, data will be returned in
 ^TMP(\$J,"GMRVHELP").

TMP(\$J,'GM Output

Either this variable or the array defined
 by HLPARRAY will contain the help for
 this measurement type. The format is
 ^TMP(\$J,"GMRVHELP",X) where X is a number
 between 1 and the number of lines of help
 text.

This procedure will return help for a particular
 measurement type.

COMPONENT: \$\$RATECHK(TYPE,RATE,UNIT)
 VARIABLES: TYPE Input

Type of measurement. This is a required
 variable and is the abbreviation for the
 measurement type found in the PCE Device
 Interface Specification.

RATE Input

The rate to be validated for this
 measurement type. This variable is
 required.

UNIT Input

This is an optional variable which will
 contain the units of measurement for
 RATE.

\$\$RATECHK Output

The function value will either be 1, rate
 is valid, or 0 rate is not valid.

This function will validate a rate for a particular
 measurement type.

1927 NAME: Vitals File Access for CPRS/OERR - GMR(120.5
 CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
 SUBSCRIBING PACKAGE: ORDER ENTRY/RESULT Salt Lake City
 USAGE: Private APPROVED:
 STATUS: Pending EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 120.5 ROOT: GMR

DESCRIPTION: TYPE: File
 The file GMR(120.5 is supported by Vitals/Measurements for use by CPRS/
 OERR to return most recent vitals for a patient. The "AA" x-ref and zero
 nodes are used.

ROUTINE:

1928 NAME: Vitals File Access for CPRS/OERR - GMRD(120.51
 CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
 SUBSCRIBING PACKAGE: ORDER ENTRY/RESULT Salt Lake City
 USAGE: Private APPROVED:
 STATUS: Pending EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 120.51 ROOT: GMRD
 DESCRIPTION: TYPE: File
 The file GMRD(120.51 is supported by Vitals/Measurements for use by CPRS/
 OERR to return most recent vitals for a patient. The "B" x-ref is used.

ROUTINE:

1938 NAME: GMRVSITE
 CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private APPROVED:
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 The Nursing package can use the DEFAULT and CHAR entry points in the
 GMRVSITE routine of the Vitals/Measurements package.

ROUTINE: GMRVSITE
 COMPONENT: DEFAULT
 VARIABLES: The Change Default Qualifiers for Temp./Pulse [NURCPE-VIT
 VMQUALITY] option can call this entry point to change
 default qualifiers for temperature and pulse entries in the
 GMRV VITAL CATEGORY (#120.53) file.

COMPONENT: CHAR
 VARIABLES: The Enter/Edit Vitals Qualifiers [NURCPE-VIT VMSITE] option
 can call this entry point to configure the GMRV VITAL
 QUALIFIER (#120.52) file entries.

1940 NAME: GMRVCAQU
 CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private APPROVED:
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 The Nursing package can call EN1^GMRVCAQU in the Vitals/Measurements
 package.

ROUTINE: GMRVCAQU
 COMPONENT: EN1
 VARIABLES: The Display Vitals Category/Qualifier Table [NURCPE-VIT
 CAT/QUAL TABLE] option can call this entry point to display
 a table of categories and qualifiers for various
 vitals/measurements (e.g., blood pressure).

1914 NAME: GMRVALLO
 CUSTODIAL PACKAGE: VITALS/MEASUREMENT Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private APPROVED: APPROVED
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 DESCRIPTION: TYPE: Routine

External Relations

Nursing can access the following entry point described in this DBIA for GMRVED0 routine.

ROUTINE: GMRVALL0

COMPONENT: LIST

VARIABLES: GNUROP Input

This variable is passed in with a value of 1 to indicate that the edit process is requested by the Nursing Service.

GMROUT Both

This variable indicates whether the user abnormally exited the vitals/measurements selection. It is passed in with a value of 0.

GMRENTY Output

The type of vitals/measurements to edit.

GMRSTR Output

The string of which vitals/measurements to edit, for example, "T;P;R;BP;".

This entry point displays the vitals/measurements for the User Configurable Combination option. This option allows users to select types of vitals/measurements to edit.

Chapter 9 Internal Relations

The name space for the Vitals/Measurements package is GMRV. The user menu can be developed locally.

Each of the options under the Vitals/M Measurement (GMRVMGR) menu can be independently invoked except for the options under the Vitals/M Measurement Data Entry option. Before selecting the following vitals/measurements options, the ENTACT^GMRVED4 is called to set up input variables .

The following is the Vitals/M Measurement Data Entry menu option.

NAME: GMRV V/M ENTRY MENU	MENU TEXT: Vitals/M Measurement Data Entry
TYPE: menu	CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - VITALS	E ACTION PRESENT: YES
X ACTION PRESENT: YES	
DESCRIPTION: This menu contains options which permit users to select the type of patient vitals/measurements to be entered.	
ITEM: GMRV TPR ROUTINE	SYNONYM: 1 (TPR)
DISPLAY ORDER: 1	
ITEM: GMRV TPR B/P ROUTINE	SYNONYM: 2 (TPR B/P)
DISPLAY ORDER: 2	
ITEM: GMRV PULSE	SYNONYM: 7 (Pulse)
DISPLAY ORDER: 7	
ITEM: GMRV ADMISSION V/M	SYNONYM: 3 (TPR B/P, Ht. and Wt.)
DISPLAY ORDER: 3	
ITEM: GMRV WEIGHT	SYNONYM: 8 (Weight)
DISPLAY ORDER: 8	
ITEM: GMRV TPR EXT B/P	SYNONYM: 5 (TPR and Detailed B/P)
DISPLAY ORDER: 5	
ITEM: GMRV CHANGE V/M PARAMETERS	SYNONYM: 13 (Change Date/Time Taken)
DISPLAY ORDER: 13	
ITEM: GMRV EXT B/P	SYNONYM: 6 (Detailed B/P and Associated Pulse)
DISPLAY ORDER: 6	
ITEM: GMRV VMCONFIG	SYNONYM: 12 (User Configurable Combination)
DISPLAY ORDER: 12	
ITEM: GMRV CIRCUMF/GIRTH	SYNONYM: 9 (Circumference/Girth)
DISPLAY ORDER: 9	
ITEM: GMRV O2SATURATION	SYNONYM: 10 (Pulse Oximetry)
DISPLAY ORDER: 10	
ITEM: GMRV CVP	SYNONYM: 11 (CVP (Central Venous Pressure))
DISPLAY ORDER: 11	
ITEM: GMRV TPRBW	SYNONYM: 4 (TPR, B/P and Wt.)
DISPLAY ORDER: 4	
EXIT ACTION: K GMRVDBA,GMRVFLAG	
ENTRY ACTION: S GMRVFLAG=1 D ENTACT^GMRVED4	
TIMESTAMP: 56999,53874	
UPPERCASE MENU TEXT: VITALS/MEASUREMENT DATA ENTRY	

Internal Relations

The following are the codes of ENTACT^GMRVED4.

```
ENTACT          ; NURSING VITAL OPTIONS ENTRY ACTION
      S: '$D(GMRVFLAG) GMRVFLAG=2 I GMRVFLAG S GMRVFLAG=$S(GMRVFLAG=1:0,1:""),G
MROUT=0 D DATE^GMRVED0 S: 'GMROUT GMRVDBA=GMROUT_"^"_GMRVIDT S:GMROUT XQUIT=1 K
GMROUT,GMRVIDT
Q
```

Chapter 10 Package-wide Variable

No package-wide variables are used in this application.

Package-wide Variable

Chapter 11 On-line Documentation

This software is found in the GMRV namespace. All routines, templates, and options begin with GMRV. File numbers are in the range of 120.5 to 120.57 and stored in the ^GMR and ^GMRD globals.

The list of all exported files and their data dictionaries can be produced by using the VA FileMan Data Dictionary Utility option, List File Attributes. File relationships can be diagrammed by using the VA FileMan Data Dictionary Utility option, Map Pointer Relationships.

Menu diagrams may be generated through the Menu Management option, Display Menus and Options. If detailed documentation is required on the application's options, it can be printed through the Menu Management option, Print Option File.

The XINDEX routine prints a cross-reference listing of all local and global variable usage as well as other information of invaluable assistance in debugging.

Throughout the application, on-line documentation is also provided at each user prompt. If you are unsure of what is being asked or how to reply during your dialogue with the computer, simply enter one or two question marks (? or ??) for help. The computer will respond with an explanation and then repeat the prompt.

Chapter 12 SAC Exemptions

There are no SAC Exemptions associated with this package.

Chapter 13 Software Product Security

1. Security Management.

No additional security measures are to be applied other than those implemented through Menu Manager and the package routines.

No additional licenses are necessary to run the software.

Confidentiality of staff and patient data and the monitoring of this confidentiality is no different than with any other paper reference.

2. Security Features:

a. Mail groups and alerts.

There are no mail groups associated with this software. There is one alert in the software that is generated if the package installation does not finish. The alert is sent to the IRMS staff member who ran the installation.

b. Remote systems.

The application does not transmit data to any remote system/facility database.

c. Archiving/Purging.

Refer to chapter 6, Archiving and Purging, in this manual.

d. Contingency Planning.

It is the responsibility of the using service to develop a local contingency plan to be used in the event of application problems.

e. Interfacing.

No specialized (non VA) interfaces are used or required by the application.

f. Electronic signatures.

Electronic signatures are not used by the application.

g. Menus.

There are no options of special note for the Information Security Officers (ISO's) to view.

h. Security Keys.

There are no Security Keys in this application.

i. File Security.

NUMBER	NAME	GLOBAL NAME	DD ACC	RD ACC	WR ACC	DEL ACC	LAY ACC
120.5	GMRV VITAL MEASUREMENT	^GMR(120.5,	@		@	@	@
120.51	GMRV VITAL TYPE	^GMRD(120.51,	@		@	@	@
120.52	GMRV VITAL QUALIFIER	^GMRD(120.52,	@		@	@	@
120.53	GMRV VITAL CATEGORY	^GMRD(120.53,	@		@	@	@
120.55	GMRV ORDERS	^GMR(120.55,	@		@	@	@
120.57	GMRV VITALS PARAMETERS	^GMRD(120.57,	@		@	@	@

j. References.

There are no special reference materials for this package.

k. Official Policies.

There are no special official policies for this package.

Glossary

Access Code A unique sequence of characters known by and assigned only to the user, the system manager and/or designated alternate(s). The access code (in conjunction with the verify code) is used by the computer to identify authorized users.

Administration Schedule This is a common abbreviation for a schedule. A schedule is the frequency for which an action is to take place, such as every eight hours (Q8H) or every other day (QOD).

ADP Coordinator/ADPAC/Application Coordinator Automated Data Processing Application Coordinator. The person responsible for implementing a set of computer programs (application package) developed to support a specific functional area such as nursing, PIMS, etc.

Application A system of computer programs and files that have been specifically developed to meet the requirements of a user or group of users. Examples of *VISTA* applications are the PIMS and Vitals/Measurements application.

Archive The process of moving data to some other storage medium, usually a magnetic tape, and deleting the information from active storage in order to free-up disk space on the system.

Audit Trail/Logging Features The use of automated software procedures to determine if the security controls implemented for protection of computer systems are being circumvented and to identify the potential source of the security breach.

Backup Procedures The provisions made for the recovery of data files and program libraries and for restart or replacement of ADP equipment after the occurrence of a system failure.

Baud Rate The rate at which data is being transmitted or received from a computer. The baud rate is equivalent to the number of characters per second times 10.

Block The unit of storage transferred to and from disk drives, typically 512, 1024, or 2048 bytes (characters).

Boot The process of starting up the computer.

BMI This is the patient's body mass index, which is calculated by dividing the person's weight in kilograms by the square of his height in meters.

Bulletin A canned message that is automatically sent by MailMan to a user when something happens to the database.

Byte A unit of computer space usually equivalent to one character.

CIOFO Chief Information Office Field Office, formerly known as Information Resource Management Field Office, and Information Systems Center.

Contingency Plan A plan which assigns responsibility and defines procedures for use of the backup/restart/recovery and emergency preparedness procedures selected for the computer system based on risk analysis for that system.

CORE A collection of VA developed programs (specific to PIMS, Pharmacy Service, and Laboratory Service) which is run at VA Medical Centers.

CPU Central Processing Unit, the heart of a computer system.

CRT Cathode Ray Tube, similar to a TV monitor but used in computer systems for viewing data. Also called a Video Display Terminal (VDT).

Cursor A visual position indicator (e.g., blinking rectangle or an underline) on a CRT that moves along with each character as it is entered from the keyboard.

Data Dictionary A description of file structure and data elements within a file.

Device A hardware input/output component of a computer system (e.g., CRT, printer).

Disk A magnetic storage device used to hold information.

Edit Used to change/modify data typically stored in a file.

Field A data element in a file.

File The M construct in which data is stored for retrieval at a later time. A computer record of related information (e.g., Patient file).

File Manager or FileMan Within this manual, FileManager or FileMan is a reference to VA FileMan. FileMan is a set of M routines used to enter, edit, print, and sort/ search related data in a file; a data base.

Focus Group Previously referred to as the Expert Panel, or SIUG (Special Interest User Group). A committee which advises programmers about the development of a particular system/package.

Global An M term used when referring to a file stored on a storage medium, usually a magnetic disk. In the Intake and Output software, for example, intake and output data is stored in one global, and patient data is stored in another global.

GMRV This signifies the General Medical Record namespace assigned to the Vitals/Measurements application.

GMRY This signifies the General Medical Record namespace assigned to the Intake and Output application.

Hardware The physical or mechanical components of a computer system such as CPU, CRT, disk drives, etc.

I&O Intake and output.

Intake/Output Type The type denotes from where the intake or output is derived, i.e., oral, intravenous, etc.

IRMS Information Resource Management Service.

IV Intravenously; by intravenous injection.

Kernel A set of software utilities. These utilities provide data processing support for the application packages developed within the VA. They are also tools used in configuring the local computer site to meet the particular needs of the hospital. The components of this operating system include: MenuMan, TaskMan, Device Handler, Log-on/Security, and other specialized routines.

Kilobyte More commonly known as Kbyte or "K". A measure of storage capacity equivalent to 1024 characters.

LAYGO An acronym for Learn As You Go. A technique used by VA FileMan to acquire new information as it goes about its normal procedure. It permits a user to add new data to a file.

M Formerly known as MUMPS or the Massachusetts (General Hospital) Utility Multi-Programming System. This is the programming language used to write all *VISTA* applications.

MailMan An electronic mail, teleconferencing, and networking system.

Megabyte A measure of storage capacity; approximately 1 million characters. Abbreviated as Mbyte or Meg.

Memory A storage area used by the computer to hold information.

Menu A set of options or functions available to users for editing, formatting, generating reports, etc.

Menu Manager A part of the Kernel that allows each site to manage the various options or functions available to individual users.

ML Milliliters; a unit of volume used in the Intake and Output application.

Modem An electronic device which converts computer signals to enable transmission through a telephone.

Module A component of the nursing software application that covers a single topic or a small section of a broad topic.

Namespace A naming convention followed in the VA to identify various applications and to avoid duplication. It is used as a prefix for all routines and globals used by the application. The Intake and Output Package uses GMRY as its namespace.

Operating System The innermost layer of software that communicates with the hardware. It controls the overall operation of the computer such as assigning places in memory, processing input and output. One of its primary functions is interpreting M computer programs into language the system can understand.

Option A functionality that is invoked by the user. The information defined in the option is used to drive the menu system. Options are created, associated with others on menus, or given entry/exit actions. For example, the GMRVMGR is the main menu for the Vitals/Measurements application.

Package Otherwise known as an application. A set of M routines, files, documentation and installation procedures that support a specific function within *VISTA* (e.g., the ADT and Vitals/Measurements applications).

Password A protected word or string of characters that identifies or authenticates a user, a specific resource, or an access type (synonymous with Verify Code).

PIMS Patient Information Management System previously known as the MAS Package.

PO Per orum; refers to an item consumed orally or through the mouth.

Pointer A special data type of VA FileMan that takes its value from another file. This is a method of joining files together and avoiding duplication of information.

Port An outlet in the back of the computer into which terminals can be connected.

Printer A device for printing (on paper) data which is processed by a computer system.

Program A set of M commands and arguments, created, stored, and retrieved as a single unit in M.

Protocol A single entry point referencing multiple routine entry points to execute several inter related, required processes which perform specific functions. When multiple protocols are associated with a single procedure (i.e., intravenous lines or IV lines), they are found grouped under a single option.

Qualifier A word that gives a more detailed description of an item.

Queuing The scheduling of a process/task to occur at a later time. Queuing is normally done if a task uses up a lot of computer resources.

Response Time The average amount of time the user must wait between the time the user responded to a question at the terminal and the time the system responds by displaying data and/or the next question.

Restart/Recovery Procedures The actions necessary to restore a system's data files and computational capability after a system failure or penetration.

<RET> Carriage return.

Routine A set of M commands and arguments, created, stored, and retrieved as a single unit in M.

Risk Analysis An analysis of system assets and vulnerabilities to establish an expected loss from certain events based on estimated probabilities of the occurrence of such events.

Security Key A function which unlocks specific options and makes them accessible to an authorized user.

Security System A part of Kernel that controls user access to the various computer applications. When a user signs-on, the security system determines the privileges of the user, assigns security keys, tracks usage, and controls the menus or options the user may access. It operates in conjunction with MenuMan.

Sensitive Information Any information which requires a degree of protection and which should be made available only to authorized users.

Service Position A term used to categorize employees based on job descriptions. Examples of service positions are: staff nurse, LPN 5, NA 4, supervisor, clerk typist, etc.

Site Configurable A term used to refer to features in the system that can be modified to meet the needs of each site.

Software A generic term referring to a related set of computer programs. Generally, this refers to an operating system that enables user programs to run.

Subroutine A part of a program which performs a single function.

Task Manager or TaskMan A part of Kernel which allows programs or functions to begin at specified times or when devices become available. See Queuing.

Telecommunications Any transmission, emission, or reception of signs, signals, writing, images, sounds or other information by wire, radio, visual, or any electromagnetic system.

Terminal A device used to send and receive data from a computer system (i.e., keyboard and CRT, or printer with a keyboard).

UCI User Class Identifier. The major delimiter of information structure within the operating system.

User A person who enters and/or retrieves data in a system, usually utilizing a CRT.

Utility An M program that assists in the development and/or maintenance of a computer system.

VDT Video Display Terminal. Also called a Cathode Ray Tube (CRT).

Verify Code A unique security code which serves as a second level of security access. Use of this code is site specific; sometimes used interchangeably with a password.

VISTA Veterans Health Information Systems and Technology Architecture.

Vital Type A category of vital sign or measurement (e.g., pulse, respiration, blood pressure, temperature).